



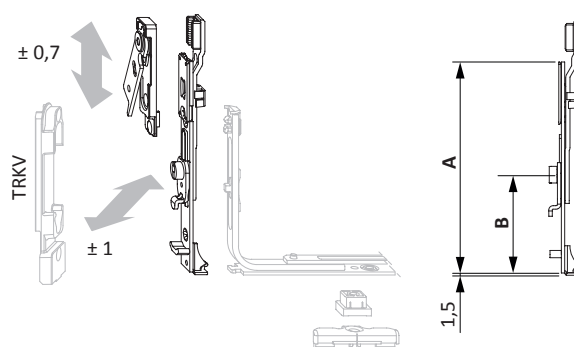
## Technical information

Part number	Description	FFH	Dimensions (mm)			
			A	B		
TEKB1130-...	tilt lock element AF/FH	460 - 3000	140	65	1	3
TFFH0151-...	sash lift KRB .. rh.	-	-	-	-	-
TFFH0152-...	sash lift KRB .. lh.	-	-	-	-	-



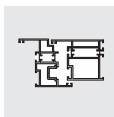
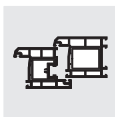
- To be used with tilt strike (vertical tilt point)
- With built in mishandling device in tilt position
- With striker packer for TFFH sash lifter
- Can be coupled with BS corner drive

2.2





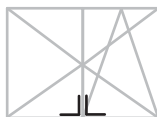
## Sales information

Description	Part number	Surface	Colour	Box quantity
tilt lock element AF/FH	TEKB1130-10001_	Titan Silver	without	1 pc
	TEKB1130-10004_	Titan Silver	without	25 pcs
sash lift KRB .. rh.	TFFH0151-10001_	Titan Silver	without	1 pc
	TFFH0151-10005_	Titan Silver	without	50 pcs
sash lift KRB .. lh.	TFFH0152-10001_	Titan Silver	without	1 pc
	TFFH0152-10005_	Titan Silver	without	50 pcs

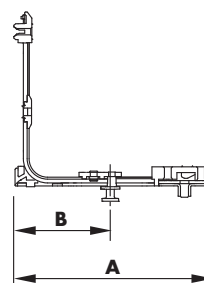
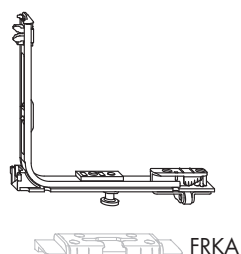


## Technical information

Part number	Description	Dimensions (mm)			
		A	B		
TEVR1070-...	locking part VSU FH 1S A0102	130	63	1	2

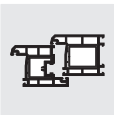


- For basic security
- Bottom horizontal component cannot be coupled
- Tilt lock bearing S-ES (SL-S) FH profile-related, refer to PDB line item FRKA (FRKJ)
- The range of application conforms to the connecting components





## Sales information

Description	Part number	Surface	Colour	Box quantity
locking part VSU FH 1S A0102	TEVR1070-10001_	Titan Silver	without	1 pc
	TEVR1070-10004_	Titan Silver	without	25 pcs



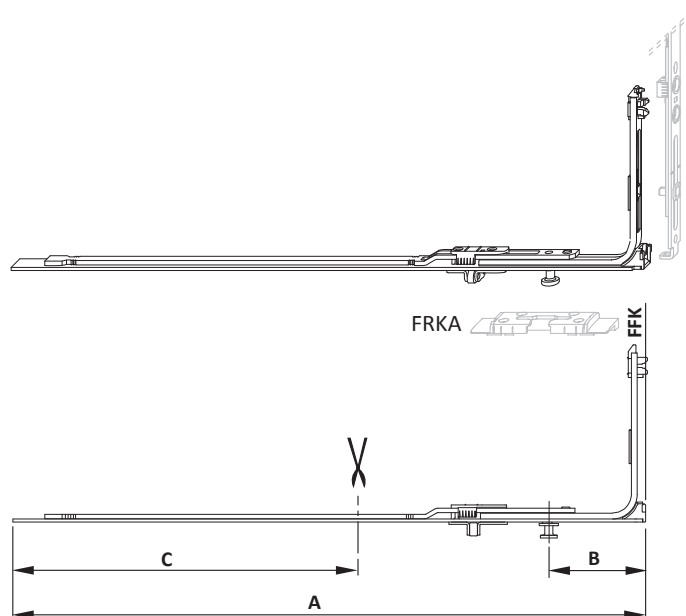
## Technical information

Part number	Description	Dimensions (mm)				
		A	B	C		
TEVR1010-...	locking part VSU/A FH 1S	412	63	202	1	2



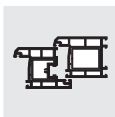
- With preassembled sash lift
- Tilt lock bearing S-ES (SL-S) FH profile-related, refer to PDB line item FRKA (FRKJ)
- The range of application conforms to the connecting components

- Note:  
An additional screw is required in addition to the stated required quantity, as a further hole is created during cropping.



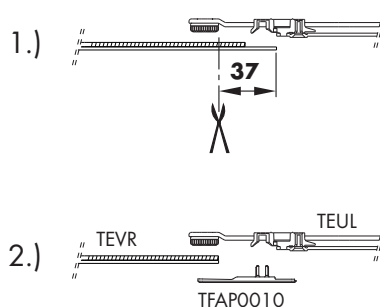
## Sales information

Description	Part number	Surface	Colour	Box quantity
locking part VSU/A FH 1S	TEVR1010-10001_	Titan Silver	without	1 pc
	TEVR1010-10005_	Titan Silver	without	50 pcs

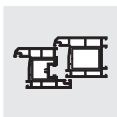


## Installation advice



- Cropping situation TITAN AF







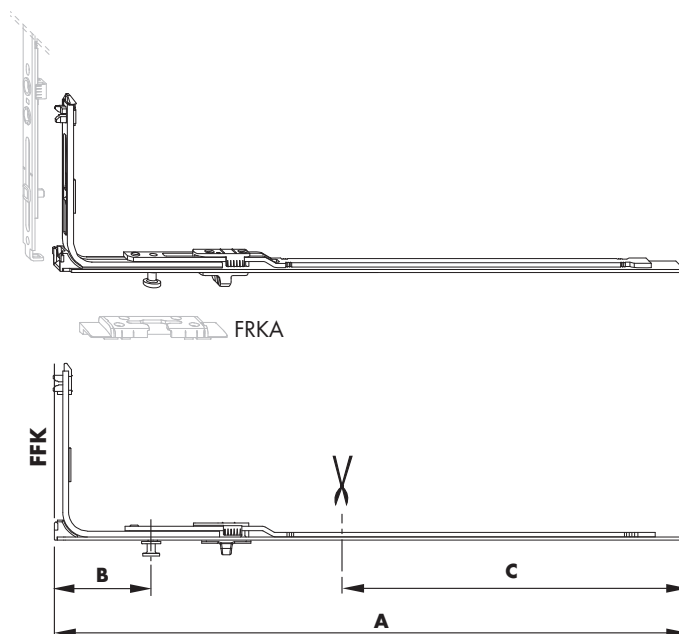
## Technical information

Part number	Description	Dimensions (mm)				
		A	B	C		
TEVR1060-...	locking part VSU/A FG 1S	412	63	202	1	2



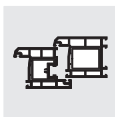
- With preassembled sash lift
- Tilt lock bearing S-ES (SL-S) FH profile-related, refer to PDB line item FRKA (FRKJ)
- The range of application conforms to the connecting components

- Note:  
An additional screw is required in addition to the stated required quantity, as a further hole is created during cropping.



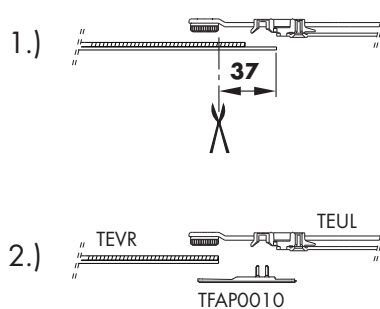
## Sales information

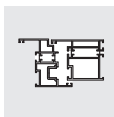
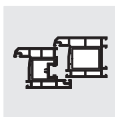
Description	Part number	Surface	Colour	Box quantity
locking part VSU/A FG 1S	TEVR1060-10001_	Titan Silver	without	1 pc
	TEVR1060-10005_	Titan Silver	without	50 pcs





## Installation advice

- Cropping situation TITAN AF





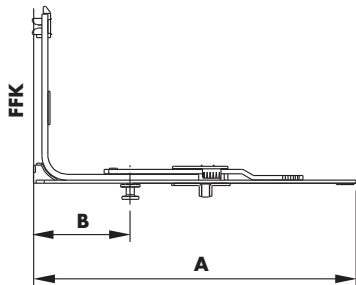
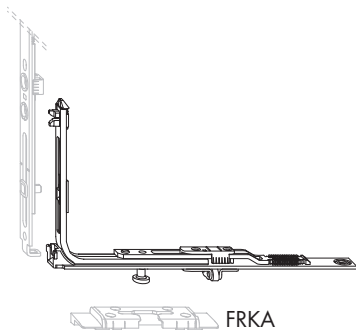
Technical information

Part number	Description	Dimensions (mm)			
		A	B		
TEVR1400-...	locking part VSU/K FH+ 1S	210	63	1	3



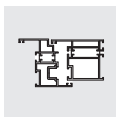
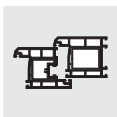
- Coupling location to slide underneath
- With preassembled sash lift
- Tilt lock bearing S-ES (SL-S) FH profile-related, refer to PDB line item FRKA (FRKJ)
- The range of application conforms to the connecting components

2.2





Sales information

Description	Part number	Surface	Colour	Box quantity
locking part VSU/K FH+ 1S	TEVR1400-10001_	Titan Silver	without	1 pc
	TEVR1400-10005_	Titan Silver	without	50 pcs
	TEVR1400-10029_	Titan Silver	without	1000 pcs



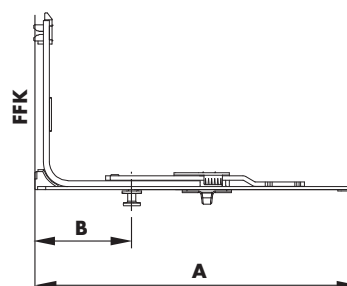
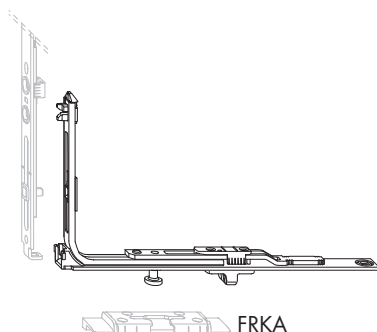
## Technical information

Part number	Description	Dimensions (mm)			
		A	B		
TEVR1180-...	locking part VSU/K FG 1S	210	63	1	3



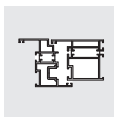
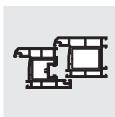
- With preassembled sash lift
- Tilt lock bearing S-ES (SL-S) FH profile-related, refer to PDB line item FRKA (FRKJ)
- The range of application conforms to the connecting components

2.2





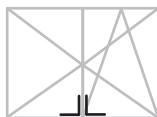
## Sales information

Description	Part number	Surface	Colour	Box quantity
locking part VSU/K FG 1S	TEVR1180-10001_	Titan Silver	without	1 pc
	TEVR1180-10005_	Titan Silver	without	50 pcs



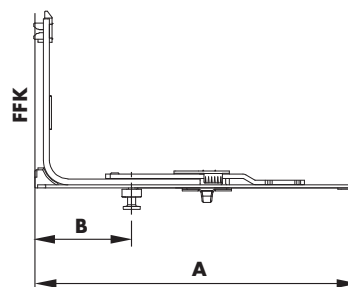
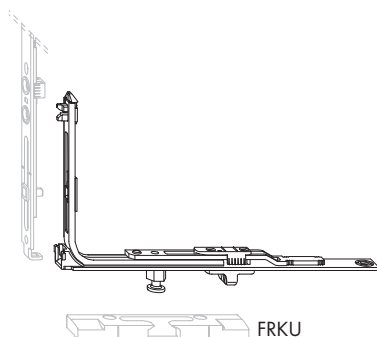
## Technical information

Part number	Description	Dimensions (mm)			
		A	B		
TEVR1570-...	locking part VSU/K FG 1S A0273	210	63	1	3



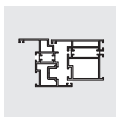
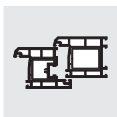
- For basic security
- With extended S-ES cam for thresholds with 10 mm airgap
- In conjunction with the tilt lock bearing SL-S FH, refer to the PDB
- The range of application conforms to the connecting components

2.2





## Sales information

Description	Part number	Surface	Colour	Box quantity
locking part VSU/K FG 1S A0273	TEVR1570-10001_	Titan Silver	without	1 pc
	TEVR1570-10004_	Titan Silver	without	25 pcs

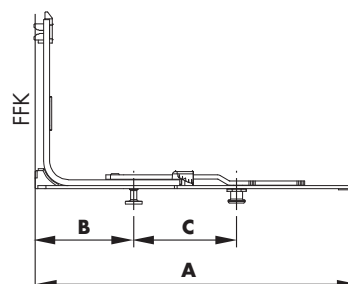
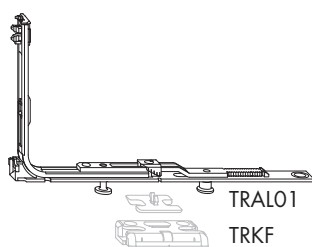


## Technical information

Part number	Description	Dimensions (mm)				
		A	B	C		
TEVR1340-...	locking part VSU/K 56+ 1S 1RS	210	64	73,50	2	2

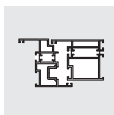
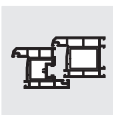


- For installation on welded sashes
- Coupling location to slide underneath
- Run-up plate FH profile-related, refer to PDB line item TRAL01
- The range of application conforms to the connecting components





## Sales information

Description	Part number	Surface	Colour	Box quantity
locking part VSU/K 56+ 1S 1RS	TEVR1340-10001_	Titan Silver	without	1 pc
	TEVR1340-10005_	Titan Silver	without	50 pcs
	TEVR1340-10050_	Titan Silver	without	1200 pcs

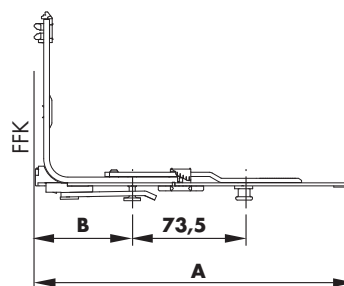
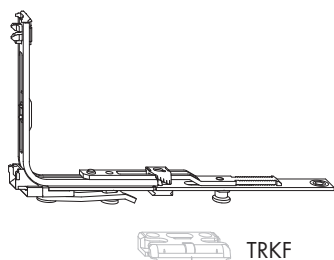


## Technical information

Part number	Description	Dimensions (mm)		Groove axis		
		A	B			
TEVR1511-...	lock.part VSU/K 56+FBSFH 1S1RS 13 rh.	210	64	13	2	2
TEVR1512-...	lock.part VSU/K 56+FBSFH 1S1RS 13 lh.	210	64	13	2	2
TEVR1521-...	lock.part VSU/K56+FBS-HFH1S1RS 9 rh.	210	64	9	2	2
TEVR1522-...	lock.part VSU/K56+FBS-HFH1S1RS 9 lh.	210	64	9	2	2

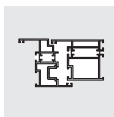
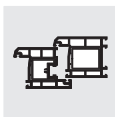


- Coupling location to slide underneath
- For installation on welded sashes
- Tilt lock bearing 56 S(L)-RS profile-related, refer to PDB line item TRKF
- The range of application conforms to the connecting components





## Sales information

Description	Part number	Surface	Colour	Box quantity
lock.part VSU/K 56+FBSFH 1S1RS 13 rh.	TEVR1511-10001_	Titan Silver	without	1 pc
	TEVR1511-10005_	Titan Silver	without	50 pcs
	TEVR1511-10029_	Titan Silver	without	1000 pcs
	TEVR1511-10050_	Titan Silver	without	1200 pcs
lock.part VSU/K 56+FBSFH 1S1RS 13 lh.	TEVR1512-10001_	Titan Silver	without	1 pc
	TEVR1512-10005_	Titan Silver	without	50 pcs
	TEVR1512-10029_	Titan Silver	without	1000 pcs
	TEVR1512-10050_	Titan Silver	without	1200 pcs
lock.part VSU/K56+FBS-HFH1S1RS 9 rh.	TEVR1521-10001_	Titan Silver	without	1 pc
	TEVR1521-10005_	Titan Silver	without	50 pcs
lock.part VSU/K56+FBS-HFH1S1RS 9 lh.	TEVR1522-10001_	Titan Silver	without	1 pc
	TEVR1522-10005_	Titan Silver	without	50 pcs

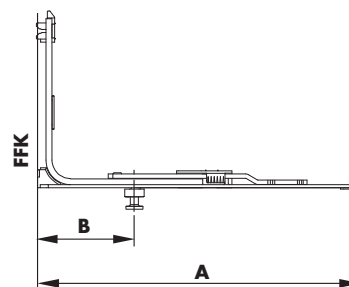
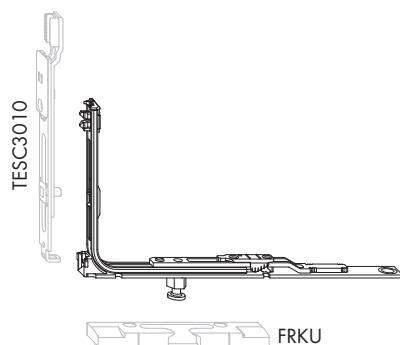


## Technical information

Part number	Description	Dimensions (mm)			
		A	B		
TEVR1380-...	locking part VSU/K 1S A0273	210	63	1	3



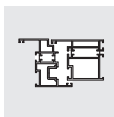
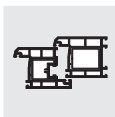
- For basic security
- For installation on welded sashes
- In conjunction with/combined with locking bolt AF VSU/ K TESC3010
- With extended S-ES cam for thresholds with 10 mm airgap
- In conjunction with the tilt lock bearing SL-S FH, refer to the PDB
- The range of application conforms to the connecting components





## Sales information

Description	Part number	Surface	Colour	Box quantity
locking part VSU/K 1S A0273	TEVR1380-10001_	Titan Silver	without	1 pc
	TEVR1380-10004_	Titan Silver	without	25 pcs





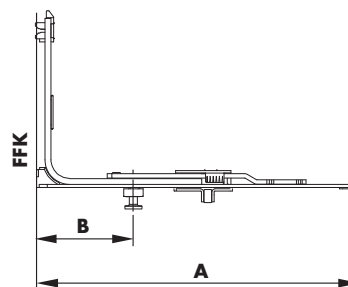
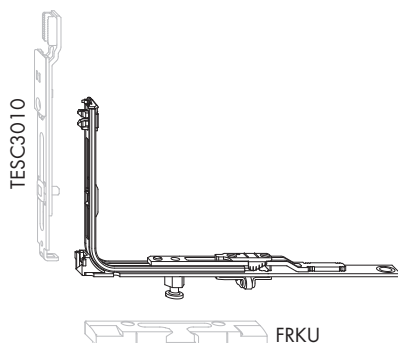
## Technical information

Part number	Description	Dimensions (mm)			
		A	B		
TEVR1540-...	locking part VSU/K FH 1S A0273	210	63	1	3



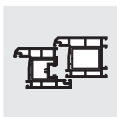
- For basic security
- In conjunction with/combined with locking bolt AF VSU/K TESC3010
- With extended S-ES cam for thresholds with 10 mm airgap
- In conjunction with the tilt lock bearing SL-S FH, refer to the PDB
- The range of application conforms to the connecting components

2.2



## Sales information

Description	Part number	Surface	Colour	Box quantity
locking part VSU/K FH 1S A0273	TEVR1540-10001_	Titan Silver	without	1 pc
	TEVR1540-10004_	Titan Silver	without	25 pcs

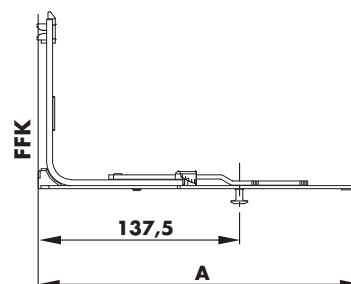
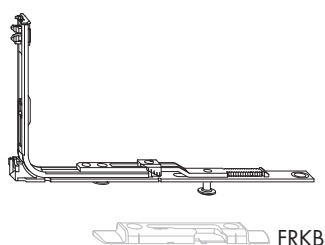


## Technical information

Part number	Description	Dimensions (mm) A		
TEVR1550-...	locking part SE VSU/K 56+ 1S	210	1	2

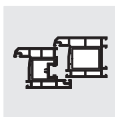


- Switching function TBT = TILT BEFORE TURN
- Tilt lock bearing S-ES FH TBT profile-related, refer to PDB line item FRKB
- The range of application conforms to the connecting components



## Sales information

Description	Part number	Surface	Colour	Box quantity
locking part SE VSU/K 56+ 1S	TEVR1550-10001_	Titan Silver	without	1 pc
	TEVR1550-10005_	Titan Silver	without	50 pcs



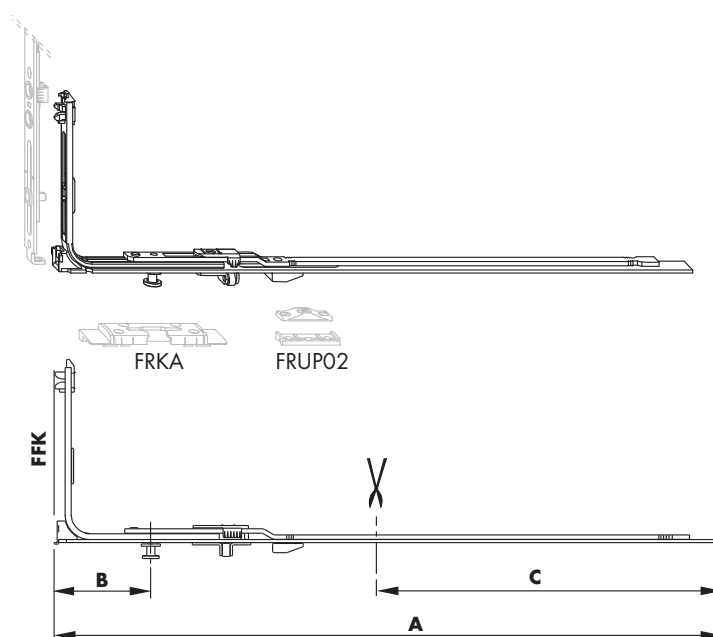
## Technical information

Part number	Description	Dimensions (mm)				
		A	B	C		
TEVR1080-...	lock.part AF VSU/A FH RB 1S	422	63	202	1	2



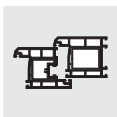
- With preassembled sash lift
- Tilt lock bearing S-ES (SL-S) FH profile-related, refer to PDB line item FRKA (FRKJ)
- Packer refer to PDB line item FRUP02
- The range of application conforms to the connecting components

2.2



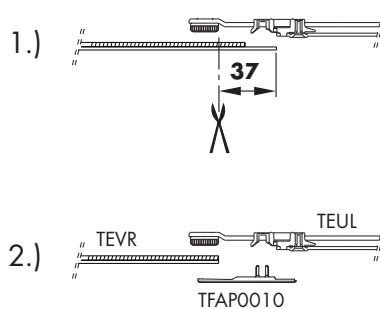
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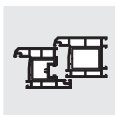
Description	Part number	Surface	Colour	Box quantity
lock.part AF VSU/A FH RB 1S	TEVR1080-10001_	Titan Silver	without	1 pc
	TEVR1080-10005_	Titan Silver	without	50 pcs



## Installation advice

- Cropping situation TITAN AF





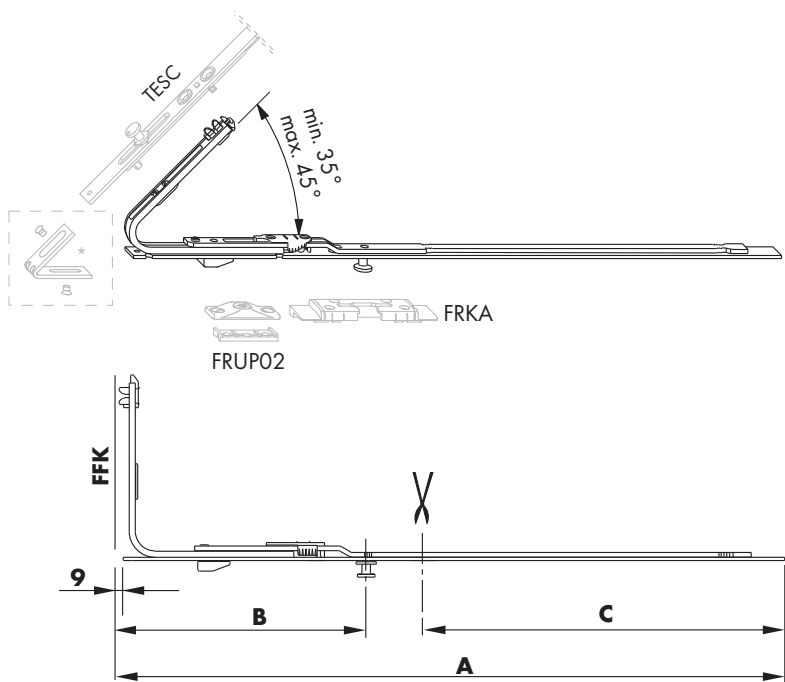
Technical information

Part number	Description	Dimensions (mm)				
		A	B	C		
TEVR1110-...	locking part VSU/A DEF 1S	462	161	202	1	2



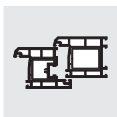
- Applicable on basic security and RC1
- Tilt lock bearing S-ES (SL-S) FH profile-related, refer to PDB line item FRKA (FRKJ)
- Packer refer to PDB line item FRUP02
- The range of application conforms to the connecting components
- \* Bag of accessories DEF refer to assembly accessories

2.2



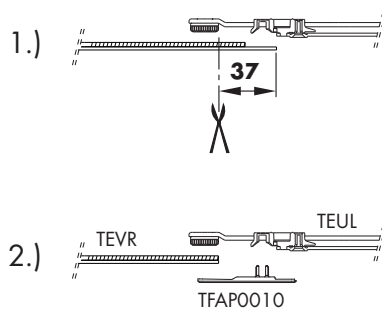
Sales information

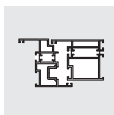
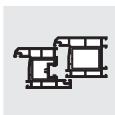
Description	Part number	Surface	Colour	Box quantity
locking part VSU/A DEF 1S	TEVR1110-10001_	Titan Silver	without	1 pc
	TEVR1110-10004_	Titan Silver	without	25 pcs



## Installation advice

- Cropping situation TITAN AF





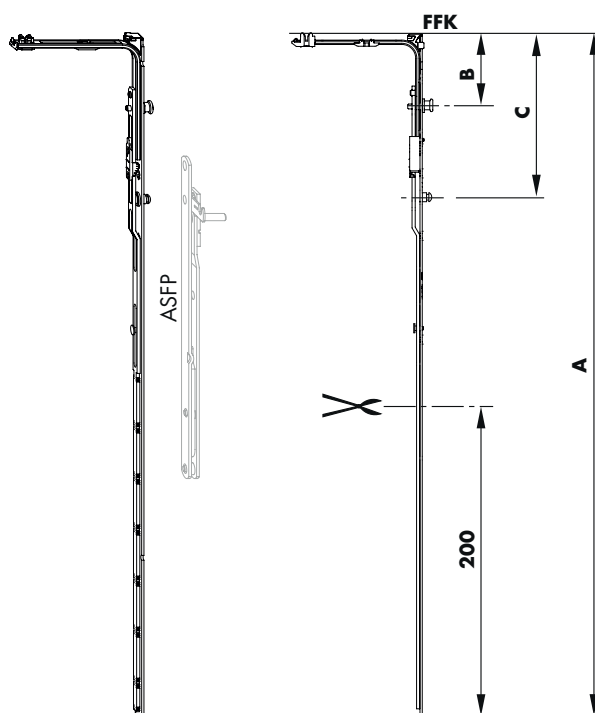
## Technical information

Part number	Description	Dimensions (mm)				
		A	B	C		
TEVR0380-...	locking part FPS/A 1RS	600	63	144	2	4



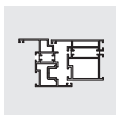
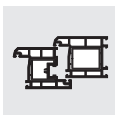
- Can be used in combination with ASFP tilt-only safety stay
- For high tilt sashes with rebate heights from 800mm
- The range of application conforms to the connecting components

2.2



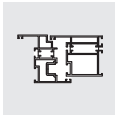
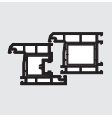
## Sales information

Description	Part number	Surface	Colour	Box quantity
locking part FPS/A 1RS	TEVR0380-10001_	Titan Silver	without	1 pc
	TEVR0380-10004_	Titan Silver	without	25 pcs



Description	Material	Page
Drill holes and routing		3.1 - 2
Application matrix: gear 15 AF, handle height constant		3.1 - 3
Application matrix: gear 15 AF, handle height constant, locking distance 700 mm		3.1 - 5
gear 15 GK	TGKK3010	3.1 - 7
gear 15 GK FH FBS	TGKK3100	3.1 - 8
gear 15 AF GK	TGKK4030, TGKK4040, TGKK4050, TGKK4060, TGKK4070, TGKK4080, TGKK4280, TGKK4220, TGKK4110	3.1 - 9
gear 15 AF GK 700	TGKK4030, TGKK4040, TGKK4050, TGKK4060, TGKK4070, TGKK4200, TGKK4280, TGKK4220, TGKK4230, TGKK4240	3.1 - 11
gear 15 AF GK	TGKK4250, TGKK4260, TGKK4120, TGKK4270, TGKK4130, TGKK4140, TGKK4150, TGKK4160, TGKK4170, TGKK4180, TGKK4190	3.1 - 13
Application matrix: gear 15 AF, handle height centre/variable		3.1 - 15
Application matrix: gear 15 AF, handle height centre/variable, locking distance 700 mm		3.1 - 17
gear 15 AF GM	TGMK4010, TGMK4020, TGMK4030, TGMK4040, TGMK4050, TGMK4160, TGMK4170, TGMK4080	3.1 - 19
gear 15 AF GM 700	TGMK4010, TGMK4020, TGMK4030, TGMK4040, TGMK4160, TGMK4170, TGMK4110	3.1 - 21
Application matrix: gear 15 AF OZ, handle height constant		3.1 - 23
gear 15 sz 30/G180 GK	TGKK3010	3.1 - 25
gear 15 AF OZ GK	TGKK9100, TGKK9110, TGKK9120, TGKK9130, TGKK9170, TGKK9180, TGKK9160	3.1 - 26
Application matrix: gear 15 AF OZ, handle height centre/variable		3.1 - 28
gear 15 AF OZ GM	TGMK9080, TGMK9090, TGMK9120, TGMK9110	3.1 - 30



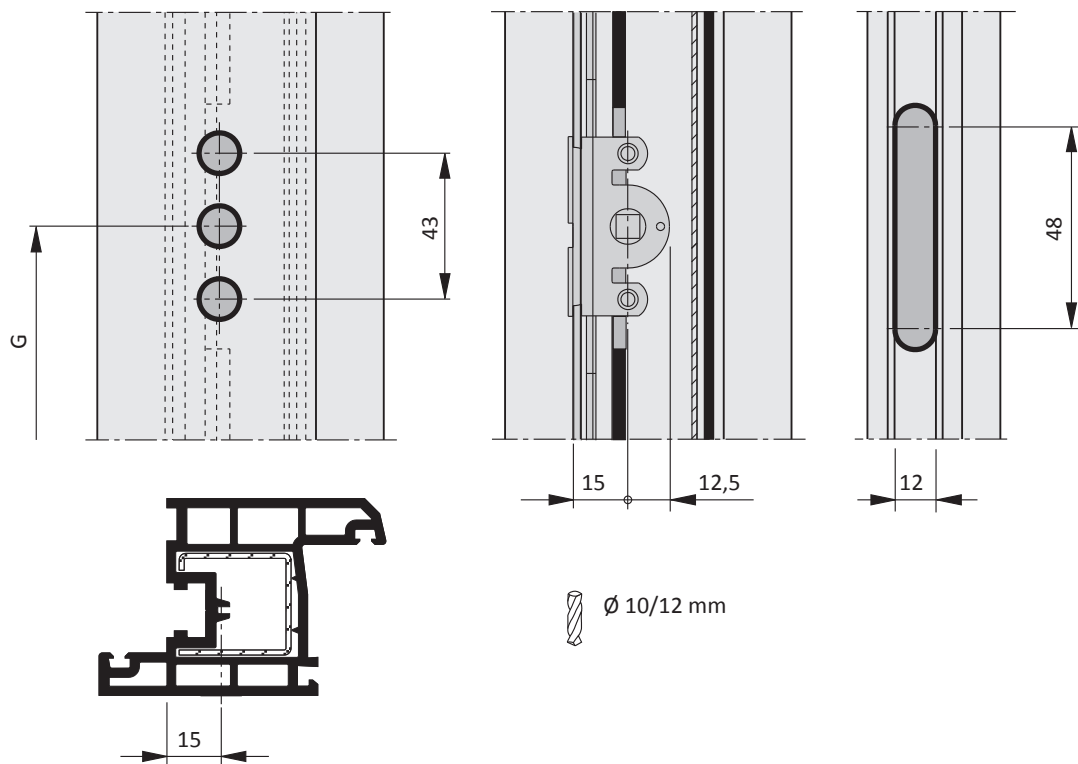
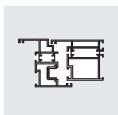
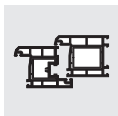
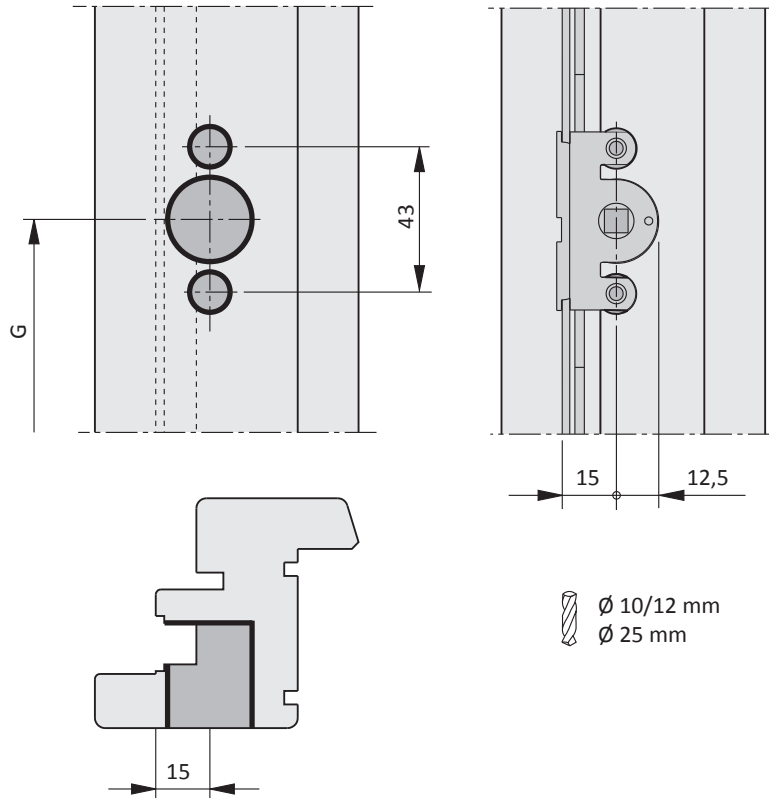


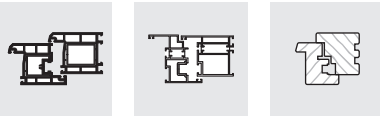
## 15 AF gear

Drill holes and routing  
Backset 15

**TITAN**

3.1

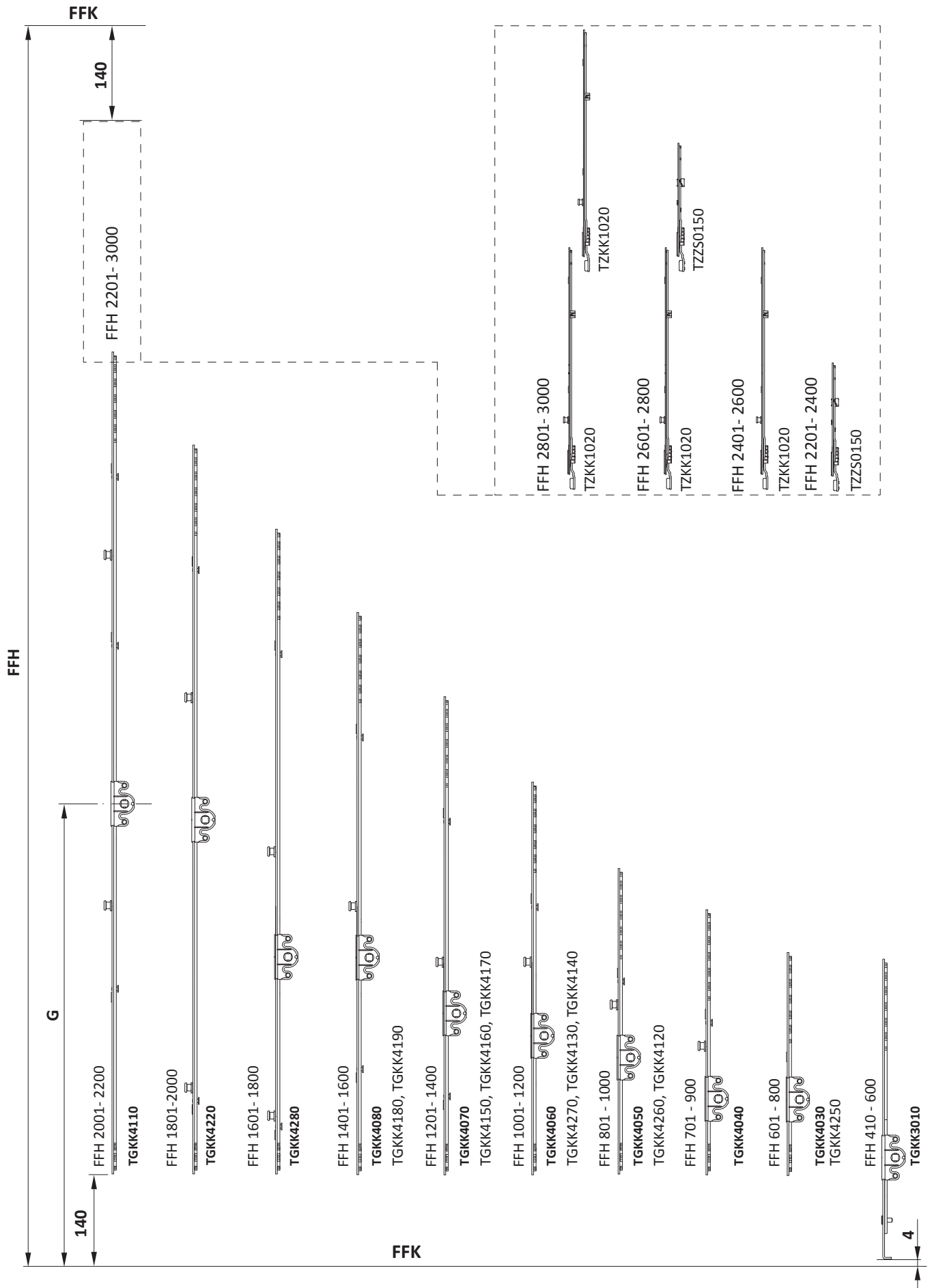




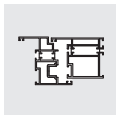
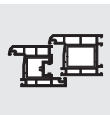
# Application matrix for gear 15 AF

Handle height constant

**TITAN AF**



3.1



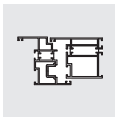
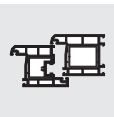
## Application matrix for gear 15 AF

Handle height constant

**TITAN AF**

3.1

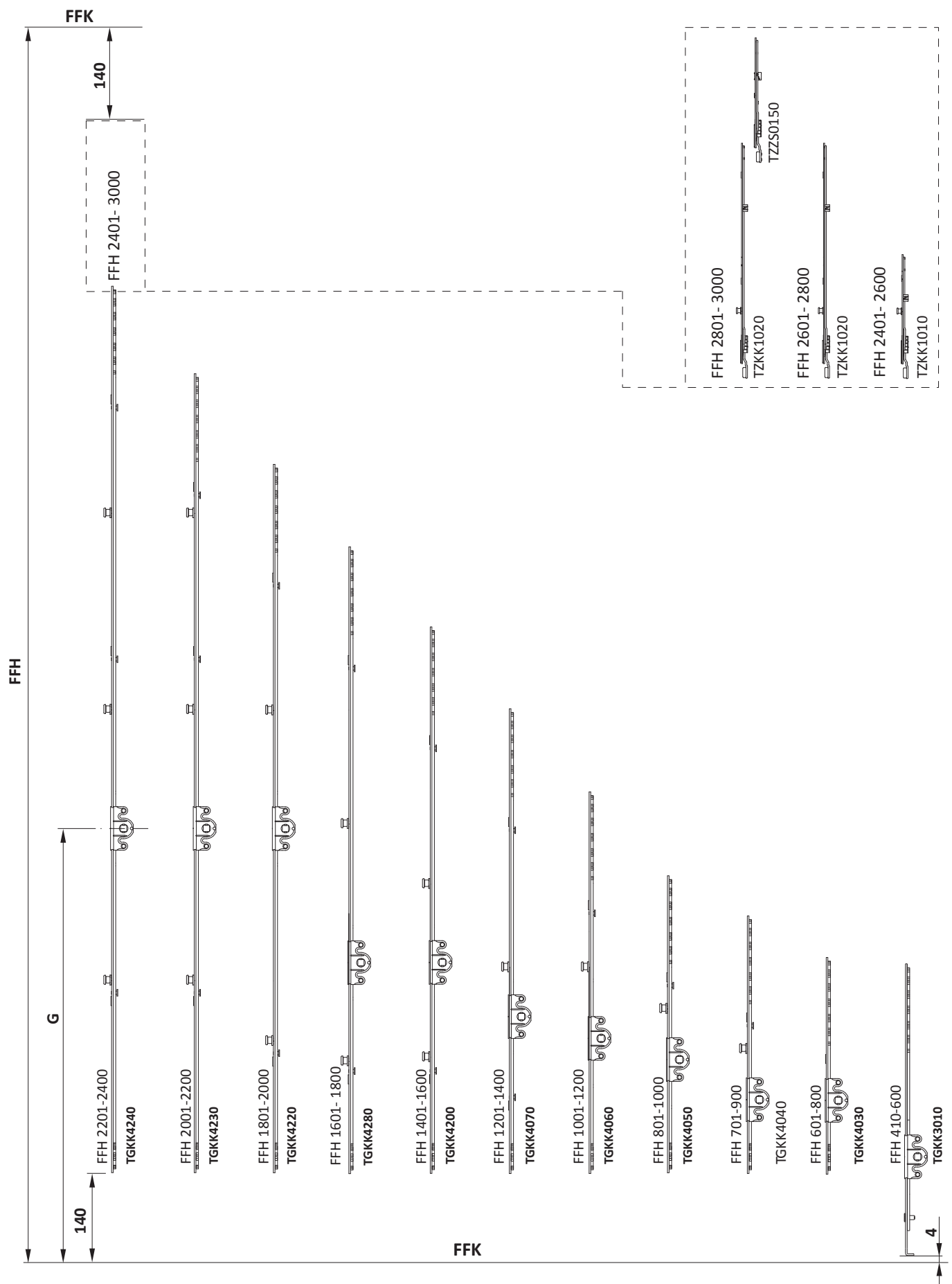
Material number	Description	Material number	Description	FFH (mm)	G (mm)
<b>TGKK3010</b>	gear 15 sz 30/G180			410 - 600	180
<b>TGKK4030</b>	gear 15 AF sz 60/G300			601 - 800	300
<b>TGKK4250</b>	gear 15 AF sz 60/G250			601 - 800	250
<b>TGKK4040</b>	gear 15 AF sz 70/G300 1RS			701 - 900	300
<b>TGKK4050</b>	gear 15 AF sz 80/G400 1RS			801 - 1000	400
<b>TGKK4260</b>	gear 15 AF sz 80/G250 1RS			801 - 1000	250
<b>TGKK4120</b>	gear 15 AF sz 80/G300 1RS			801 - 1000	300
<b>TGKK4060</b>	gear 15 AF sz 100/G500 1RS			1001 - 1200	500
<b>TGKK4270</b>	gear 15 AF sz 100/G250 1RS			1001 - 1200	250
<b>TGKK4130</b>	gear 15 AF sz 100/G300 1RS			1001 - 1200	300
<b>TGKK4140</b>	gear 15 AF sz 100/G400 1RS			1001 - 1200	400
<b>TGKK4070</b>	gear 15 AF sz 120/G600 1RS			1201 - 1400	600
<b>TGKK4150</b>	gear 15 AF sz 120/G300 1RS			1201 - 1400	300
<b>TGKK4160</b>	gear 15 AF sz 120/G400 1RS			1201 - 1400	400
<b>TGKK4170</b>	gear 15 AF sz 120/G500 1RS			1201 - 1400	500
<b>TGKK4080</b>	gear 15 AF sz 140/G700 1RS			1401 - 1600	700
<b>TGKK4180</b>	gear 15 AF sz 140/G500 1RS			1401 - 1600	500
<b>TGKK4190</b>	gear 15 AF sz 140/G600 1RS			1401 - 1600	600
<b>TGKK4280</b>	gear 15 AF sz 160/G700 2RS 70			1601 - 1800	700
<b>TGKK4220</b>	gear 15 AF sz 180/G1000 2RS 70			1801 - 2000	1000
<b>TGKK4110</b>	gear 15 AF sz 200/G1000 2RS			2001 - 2200	1000
<b>TGKK4110</b>	gear 15 AF sz 200/G1000 2RS	<b>TZZS0150</b>	linkage AF sz 1	2201 - 2400	1000
<b>TGKK4110</b>	gear 15 AF sz 200/G1000 2RS	<b>TZKK1020</b>	linkage KK/AF sz 2 1RS	2401 - 2600	1000
<b>TGKK4110</b>	gear 15 AF sz 200/G1000 2RS	<b>TZKK1020</b>	linkage KK/AF sz 2 1RS	2601 - 2800	1000
		<b>TZZS0150</b>	linkage AF sz 1		
<b>TGKK4110</b>	gear 15 AF sz 200/G1000 2RS	<b>TZKK1020</b>	linkage KK/AF sz 2 1RS	2801 - 3000	1000
		<b>TZKK1020</b>	linkage KK/AF sz 2 1RS		



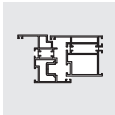
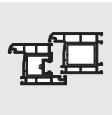
## Application matrix for gear 15 AF

Handle height constant  
Locking distance 700 mm

**TITAN AF**



3.1



## Application matrix for gear 15 AF

Handle height constant  
Locking distance 700 mm



**TITAN AF**

Material number	Description	Material number	Description	FFH (mm)	G (mm)
<b>TGKK3010</b>	gear 15 sz 30/G180			410 - 600	180
<b>TGKK4030</b>	gear 15 AF sz 60/G300			601 - 800	300
<b>TGKK4040</b>	gear 15 AF sz 70/G300 1RS			701 - 900	300
<b>TGKK4050</b>	gear 15 AF sz 80/G400 1RS			801 - 1000	400
<b>TGKK4060</b>	gear 15 AF sz 100/G500 1RS			1001 - 1200	500
<b>TGKK4070</b>	gear 15 AF sz 120/G600 1RS			1201 - 1400	600
<b>TGKK4200</b>	gear 15 AF sz 140/G700 2RS 70			1401 - 1600	700
<b>TGKK4280</b>	gear 15 AF sz 160/G700 2RS 70			1601 - 1800	700
<b>TGKK4220</b>	gear 15 AF sz 180/G1000 2RS 70			1801 - 2000	1000
<b>TGKK4230</b>	gear 15 AF sz 200/G1000 3RS 70			2001 - 2200	1000
<b>TGKK4240</b>	gear 15 AF sz 220/G1000 3RS 70			2201 - 2400	1000
<b>TGKK4240</b>	gear 15 AF sz 220/G1000 3RS 70	<b>TZKK1010</b>	linkage KK/AF sz 1 1RS	2401 - 2600	1000
<b>TGKK4240</b>	gear 15 AF sz 220/G1000 3RS 70	<b>TZKK1020</b>	linkage KK/AF sz 2 1RS	2601 - 2800	1000
<b>TGKK4240</b>	gear 15 AF sz 220/G1000 2RS	<b>TZKK1020</b>	linkage KK/AF sz 2 1RS	2801 - 3000	1000
		<b>TZZS0150</b>	linkage AF sz 1		

3.1

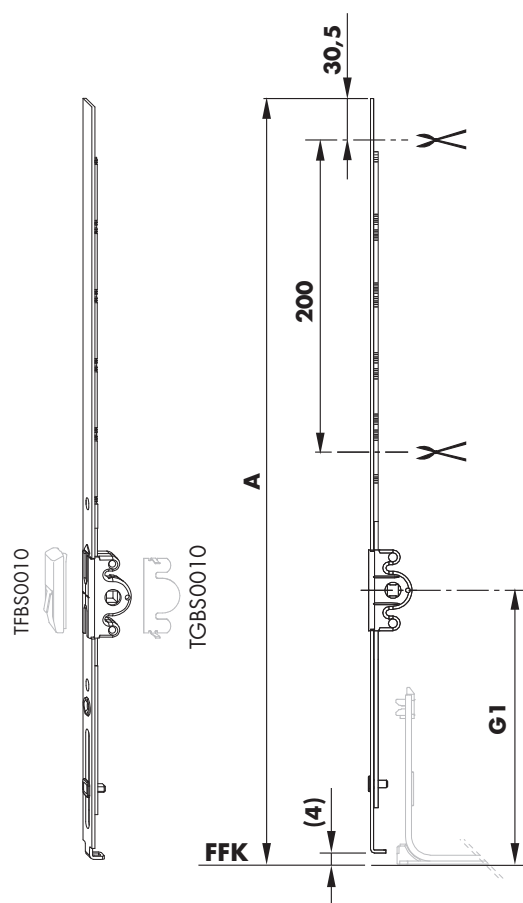


## Technical information

Part number	Description	Dimensions (mm)			
		G1	A		
TGKK3010-...	gear 15 sz 30/G180	180	495	0	1

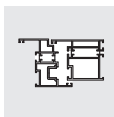
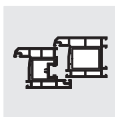


- Handle height constant
- Suitable for product range TITAN iP and TITAN AF
- TITAN AF FFH (mm)  
with TEUL4020 = 310-410  
with TEUL4010 = 411-600
- When used with TITAN AF the gear must be shortened by 30.5 mm



## Sales information

Description	Part number	Surface	Colour	Box quantity
gear 15 sz 30/G180	TGKK3010-10001_	Titan Silver	without	1 pc
	TGKK3010-10004_	Titan Silver	without	25 pcs



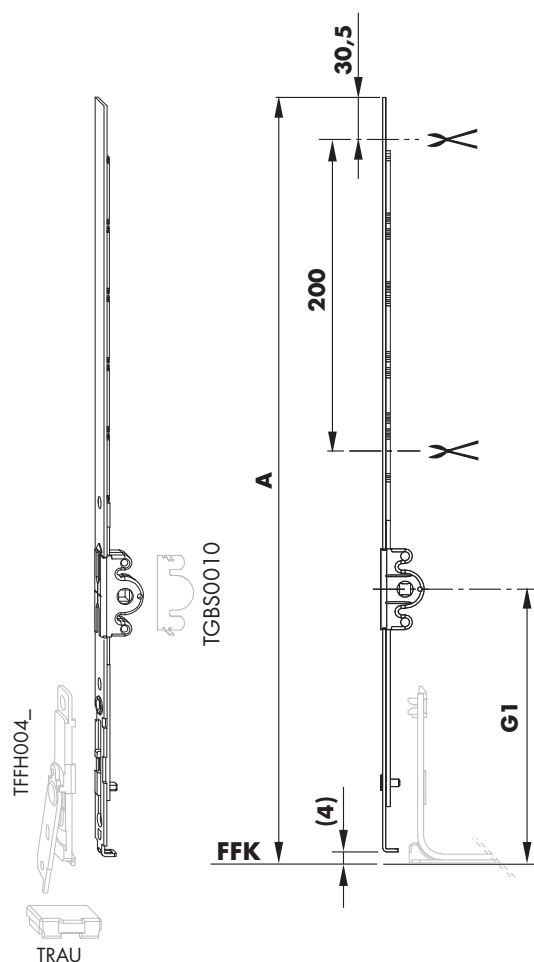
## Technical information

Part number	Description	Dimensions (mm)			
		G1	A		
TGKK3100-...	gear 15 sz 30/G180 FH FBS	180	495	0	1



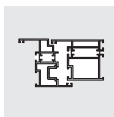
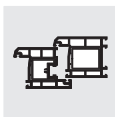
- Handle height constant
- Suitable for product range TITAN iP and TITAN AF
- TITAN AF FFH (mm)  
with TEUL4020 = 310-410  
with TEUL4010 = 411-600
- When used with TITAN AF the gear must be shortened by 30.5 mm
- Run up block for sash lift FBS, refer to PDB line item TRAU

### 3.1





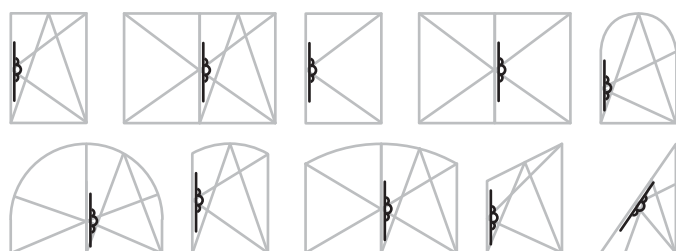
## Sales information

Description	Part number	Surface	Colour	Box quantity
gear 15 sz 30/G180 FH FBS	TGKK3100-10001_	Titan Silver	without	1 pc
	TGKK3100-10004_	Titan Silver	without	25 pcs

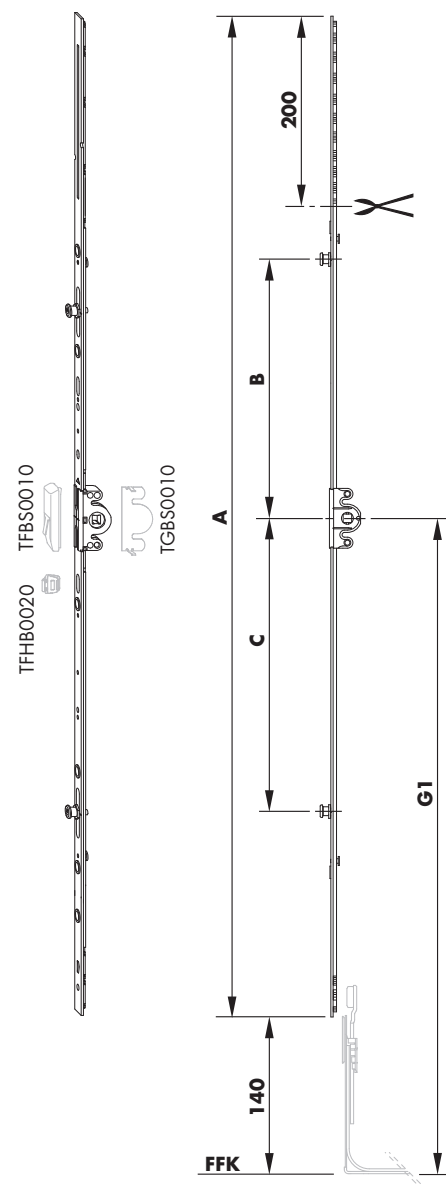


## Technical information

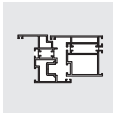
Part number	Description	FFH	Dimensions (mm)					
			G1	A	B	C		
TGKK4030-...	gear 15 AF sz 60/G300	601 - 800	300	520	-	-	0	2
TGKK4040-...	gear 15 AF sz 70/G300 1RS	-	300	620	80	-	1	2
TGKK4050-...	gear 15 AF sz 80/G400 1RS	-	400	720	80	-	1	3
TGKK4060-...	gear 15 AF sz 100/G500 1RS	-	500	920	180	-	1	4
TGKK4070-...	gear 15 AF sz 120/G600 1RS	-	600	1120	80	-	1	5
TGKK4080-...	gear 15 AF sz 140/G700 1RS	-	700	1320	80	-	1	6
TGKK4280-...	gear 15 AF sz 160/G700 2RS 70	-	700	1520	380	320	2	7
TGKK4220-...	gear 15 AF sz 180/G1000 2RS 70	-	1000	1720	280	420	2	8
TGKK4110-...	gear 15 AF sz 200/G1000 2RS	-	1000	1920	580	220	2	9



- Handle height constant

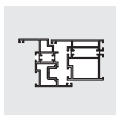
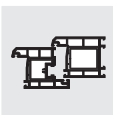








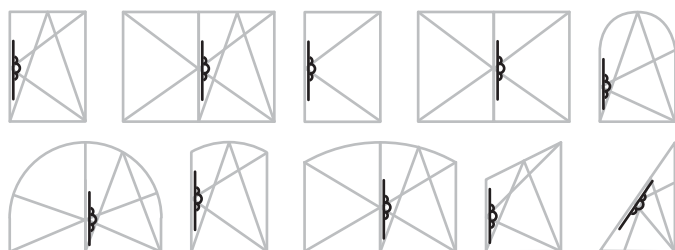
## Sales information

Description	Part number	Surface	Colour	Box quantity
gear 15 AF sz 60/G300	TGKK4030-10001_	Titan Silver	without	1 pc
	TGKK4030-10004_	Titan Silver	without	25 pcs
gear 15 AF sz 70/G300 1RS	TGKK4040-10001_	Titan Silver	without	1 pc
	TGKK4040-10004_	Titan Silver	without	25 pcs
gear 15 AF sz 80/G400 1RS	TGKK4050-10001_	Titan Silver	without	1 pc
	TGKK4050-10004_	Titan Silver	without	25 pcs
	TGKK4050-10022_	Titan Silver	without	400 pcs
gear 15 AF sz 100/G500 1RS	TGKK4060-10001_	Titan Silver	without	1 pc
	TGKK4060-10004_	Titan Silver	without	25 pcs
	TGKK4060-10022_	Titan Silver	without	400 pcs
gear 15 AF sz 120/G600 1RS	TGKK4070-10001_	Titan Silver	without	1 pc
	TGKK4070-10004_	Titan Silver	without	25 pcs
	TGKK4070-10022_	Titan Silver	without	400 pcs
gear 15 AF sz 140/G700 1RS	TGKK4080-10001_	Titan Silver	without	1 pc
	TGKK4080-10004_	Titan Silver	without	25 pcs
	TGKK4080-10007_	Titan Silver	without	250 pcs
gear 15 AF sz 160/G700 2RS 70	TGKK4280-10001_	Titan Silver	without	1 pc
	TGKK4280-10004_	Titan Silver	without	25 pcs
gear 15 AF sz 180/G1000 2RS 70	TGKK4220-10001_	Titan Silver	without	1 pc
	TGKK4220-10002_	Titan Silver	without	10 pcs
gear 15 AF sz 200/G1000 2RS	TGKK4110-10001_	Titan Silver	without	1 pc
	TGKK4110-10002_	Titan Silver	without	10 pcs

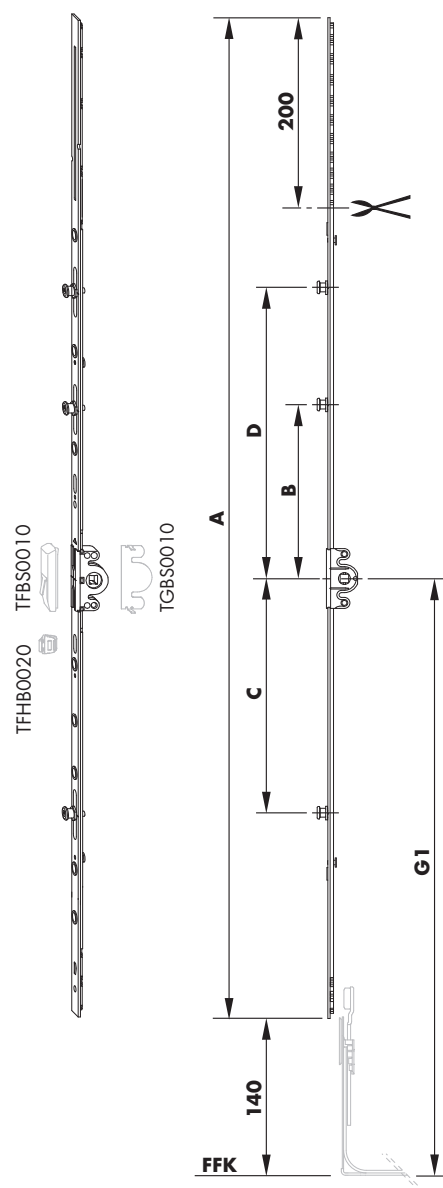


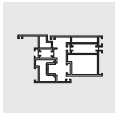
## Technical information

Part number	Description	FFH	Dimensions (mm)						
			G1	A	B	C	D		
TGKK4030-...	gear 15 AF sz 60/G300	601 - 800	300	520	-	-	-	0	2
TGKK4040-...	gear 15 AF sz 70/G300 1RS	-	300	620	80	-	-	1	2
TGKK4050-...	gear 15 AF sz 80/G400 1RS	-	400	720	80	-	-	1	3
TGKK4060-...	gear 15 AF sz 100/G500 1RS	-	500	920	180	-	-	1	4
TGKK4070-...	gear 15 AF sz 120/G600 1RS	-	600	1120	80	-	-	1	5
TGKK4200-...	gear 15 AF sz 140/700 2RS 70	-	700	1320	180	320	-	2	7
TGKK4280-...	gear 15 AF sz 160/G700 2RS 70	-	700	1520	380	320	-	2	7
TGKK4220-...	gear 15 AF sz 180/G1000 2RS 70	-	1000	1720	280	420	-	2	8
TGKK4230-...	gear 15 AF sz 200/G1000 3RS 70	-	1000	1920	280	420	680	3	9
TGKK4240-...	gear 15 AF sz 220/G1000 3RS 70	-	1000	2120	280	420	680	3	10



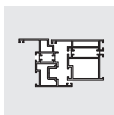
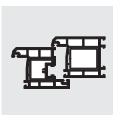
- Handle height constant
- Locking distance 700 mm





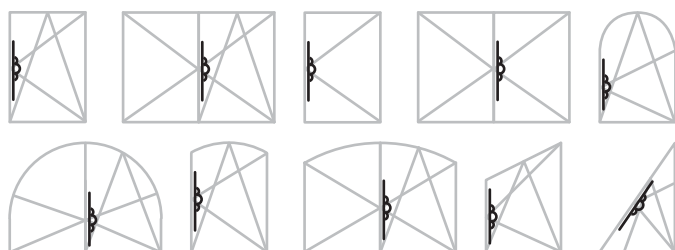
## Sales information

Description	Part number	Surface	Colour	Box quantity
gear 15 AF sz 60/G300	TGKK4030-10001_	Titan Silver	without	1 pc
	TGKK4030-10004_	Titan Silver	without	25 pcs
gear 15 AF sz 70/G300 1RS	TGKK4040-10001_	Titan Silver	without	1 pc
	TGKK4040-10004_	Titan Silver	without	25 pcs
gear 15 AF sz 80/G400 1RS	TGKK4050-10001_	Titan Silver	without	1 pc
	TGKK4050-10004_	Titan Silver	without	25 pcs
	TGKK4050-10022_	Titan Silver	without	400 pcs
gear 15 AF sz 100/G500 1RS	TGKK4060-10001_	Titan Silver	without	1 pc
	TGKK4060-10004_	Titan Silver	without	25 pcs
	TGKK4060-10022_	Titan Silver	without	400 pcs
gear 15 AF sz 120/G600 1RS	TGKK4070-10001_	Titan Silver	without	1 pc
	TGKK4070-10004_	Titan Silver	without	25 pcs
	TGKK4070-10022_	Titan Silver	without	400 pcs
gear 15 AF sz 140/700 2RS 70	TGKK4200-10001_	Titan Silver	without	1 pc
	TGKK4200-10004_	Titan Silver	without	25 pcs
	TGKK4200-10022_	Titan Silver	without	400 pcs
gear 15 AF sz 160/G700 2RS 70	TGKK4280-10001_	Titan Silver	without	1 pc
	TGKK4280-10004_	Titan Silver	without	25 pcs
gear 15 AF sz 180/G1000 2RS 70	TGKK4220-10001_	Titan Silver	without	1 pc
	TGKK4220-10002_	Titan Silver	without	10 pcs
gear 15 AF sz 200/G1000 3RS 70	TGKK4230-10001_	Titan Silver	without	1 pc
	TGKK4230-10002_	Titan Silver	without	10 pcs
gear 15 AF sz 220/G1000 3RS 70	TGKK4240-10001_	Titan Silver	without	1 pc
	TGKK4240-10002_	Titan Silver	without	10 pcs

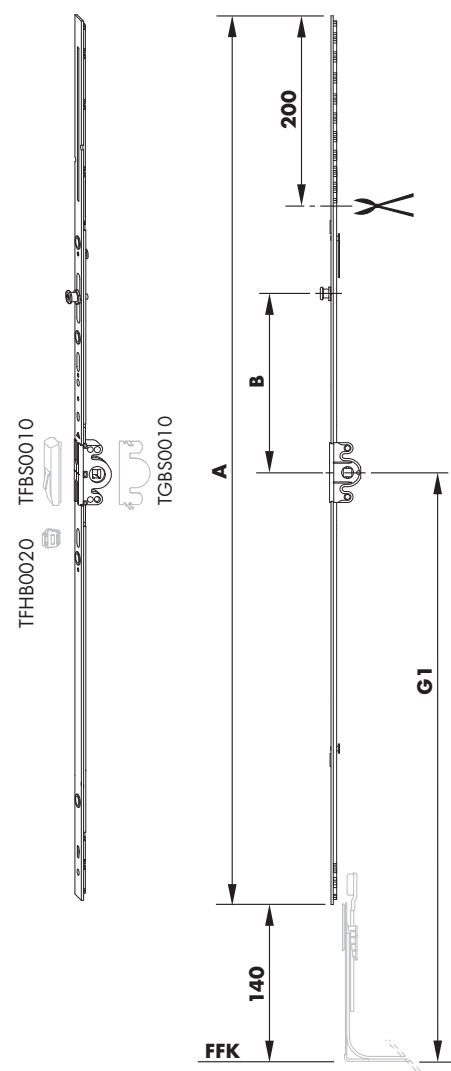


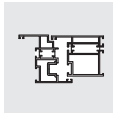
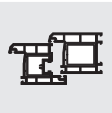
## Technical information

Part number	Description	FFH	Dimensions (mm)				
			G1	A	B		
TGKK4250-...	gear 15 AF sz 60/G250	601 - 800	250	520	-	0	1
TGKK4260-...	gear 15 AF sz 80/G250 1RS	-	250	720	230	1	2
TGKK4120-...	gear 15 AF sz 80/G300 1RS	-	300	720	180	1	3
TGKK4270-...	gear 15 AF sz 100/G250 1RS	-	250	920	430	1	3
TGKK4130-...	gear 15 AF sz 100/G300 1RS	-	300	920	380	1	4
TGKK4140-...	gear 15 AF sz 100/G400 1RS	-	400	920	280	1	5
TGKK4150-...	gear 15 AF sz 120/G300 1RS	-	300	1120	380	1	5
TGKK4160-...	gear 15 AF sz 120/G400 1RS	-	400	1120	280	1	6
TGKK4170-...	gear 15 AF sz 120/G500 1RS	-	500	1120	180	1	5
TGKK4180-...	gear 15 AF sz 140/G500 1RS	-	500	1320	280	1	6
TGKK4190-...	gear 15 AF sz 140/G600 1RS	-	600	1320	180	1	7



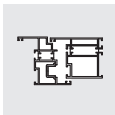
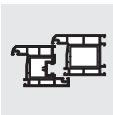
- Handle height constant





## Sales information

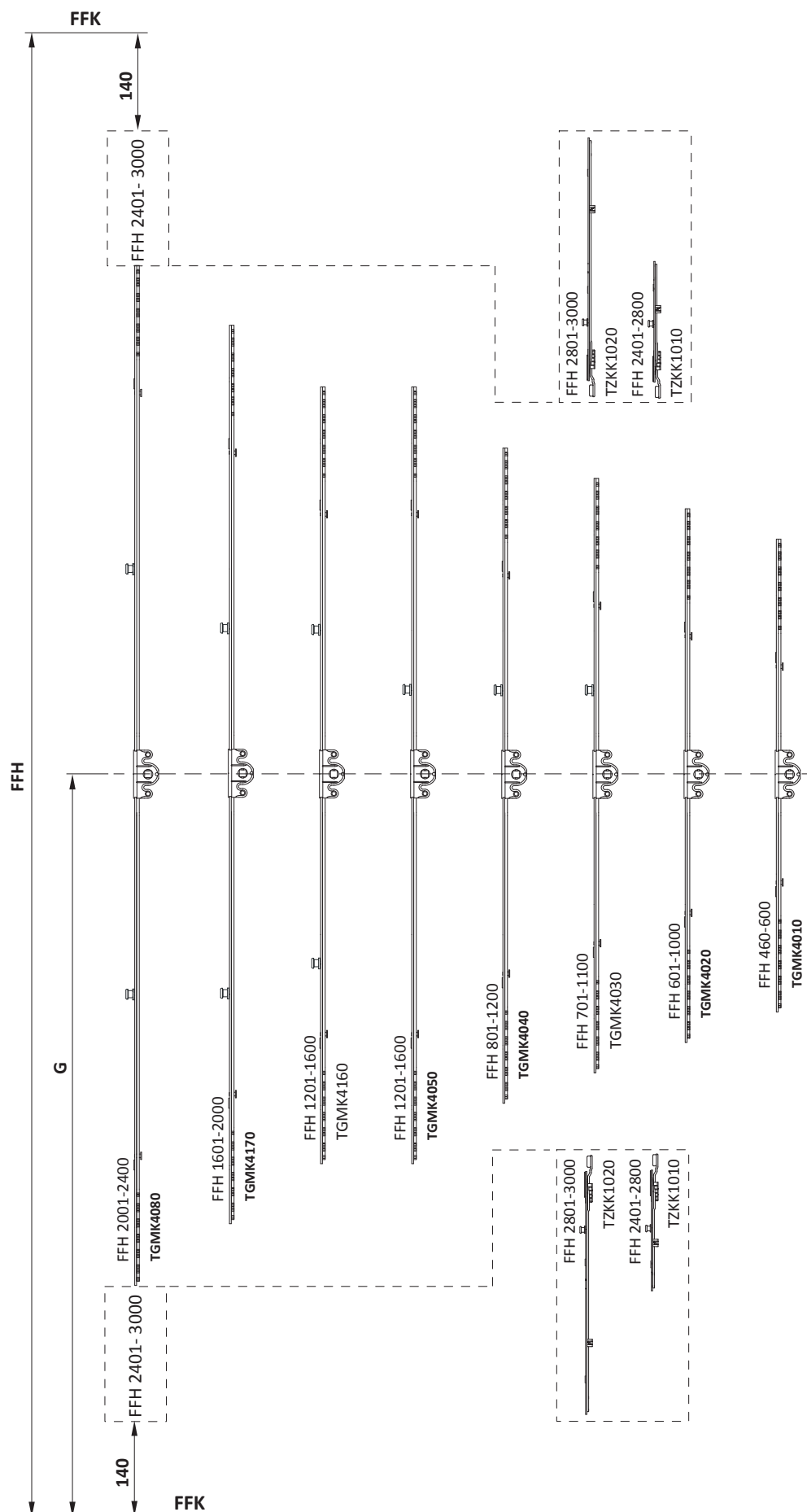
Description	Part number	Surface	Colour	Box quantity
gear 15 AF sz 60/G250	TGKK4250-10001_	Titan Silver	without	1 pc
	TGKK4250-10004_	Titan Silver	without	25 pcs
gear 15 AF sz 80/G250 1RS	TGKK4260-10001_	Titan Silver	without	1 pc
	TGKK4260-10004_	Titan Silver	without	25 pcs
gear 15 AF sz 80/G300 1RS	TGKK4120-10001_	Titan Silver	without	1 pc
	TGKK4120-10004_	Titan Silver	without	25 pcs
gear 15 AF sz 100/G250 1RS	TGKK4270-10001_	Titan Silver	without	1 pc
	TGKK4270-10004_	Titan Silver	without	25 pcs
gear 15 AF sz 100/G300 1RS	TGKK4130-10001_	Titan Silver	without	1 pc
	TGKK4130-10004_	Titan Silver	without	25 pcs
gear 15 AF sz 100/G400 1RS	TGKK4140-10001_	Titan Silver	without	1 pc
	TGKK4140-10004_	Titan Silver	without	25 pcs
gear 15 AF sz 120/G300 1RS	TGKK4150-10001_	Titan Silver	without	1 pc
	TGKK4150-10004_	Titan Silver	without	25 pcs
gear 15 AF sz 120/G400 1RS	TGKK4160-10001_	Titan Silver	without	1 pc
	TGKK4160-10004_	Titan Silver	without	25 pcs
gear 15 AF sz 120/G500 1RS	TGKK4170-10001_	Titan Silver	without	1 pc
	TGKK4170-10004_	Titan Silver	without	25 pcs
gear 15 AF sz 140/G500 1RS	TGKK4180-10001_	Titan Silver	without	1 pc
	TGKK4180-10004_	Titan Silver	without	25 pcs
gear 15 AF sz 140/G600 1RS	TGKK4190-10001_	Titan Silver	without	1 pc
	TGKK4190-10004_	Titan Silver	without	25 pcs



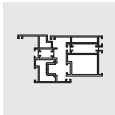
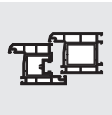
## Application matrix for gear 15 AF

Handle height centre/variable

**TITAN AF**



3.1



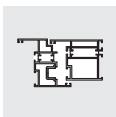
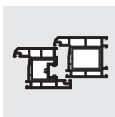
## Application matrix for gear 15 AF

Handle height centre/variable

**TITAN AF**

Material number	Description	Material number	Description	FFH (mm)	G (mm)
<b>TGMK4010</b>	gear 15 AF sz 20			460 - 600	230 - 300
<b>TGMK4020</b>	gear 15 AF sz 60			601 - 1000	300 - 500
<b>TGMK4030</b>	gear 15 AF sz 70 1RS			701 - 1100	350 - 550
<b>TGMK4040</b>	gear 15 AF sz 80 1RS			801 - 1200	400 - 600
<b>TGMK4050</b>	gear 15 AF sz 120 1RS			1201 - 1600	600 - 800
<b>TGMK4160</b>	gear 15 AF sz 120 2RS 70			1201 - 1600	600 - 800
<b>TGMK4170</b>	gear 15 AF sz 160 2RS 70			1601 - 2000	800 - 1000
<b>TGMK4080</b>	gear 15 AF sz 200 2RS			2001 - 2400	1000 - 1200
<b>TGMK4080</b>	gear 15 AF sz 200 2RS	<b>TZKK1010</b>	<b>2</b> linkages KK/AF sz 1 1RS	2401 - 2800	1200 - 1400
<b>TGMK4080</b>	gear 15 AF sz 200 2RS	<b>TZKK1020</b>	<b>2</b> linkages KK/AF sz 2 1RS	2801 - 3000	1400 - 1500

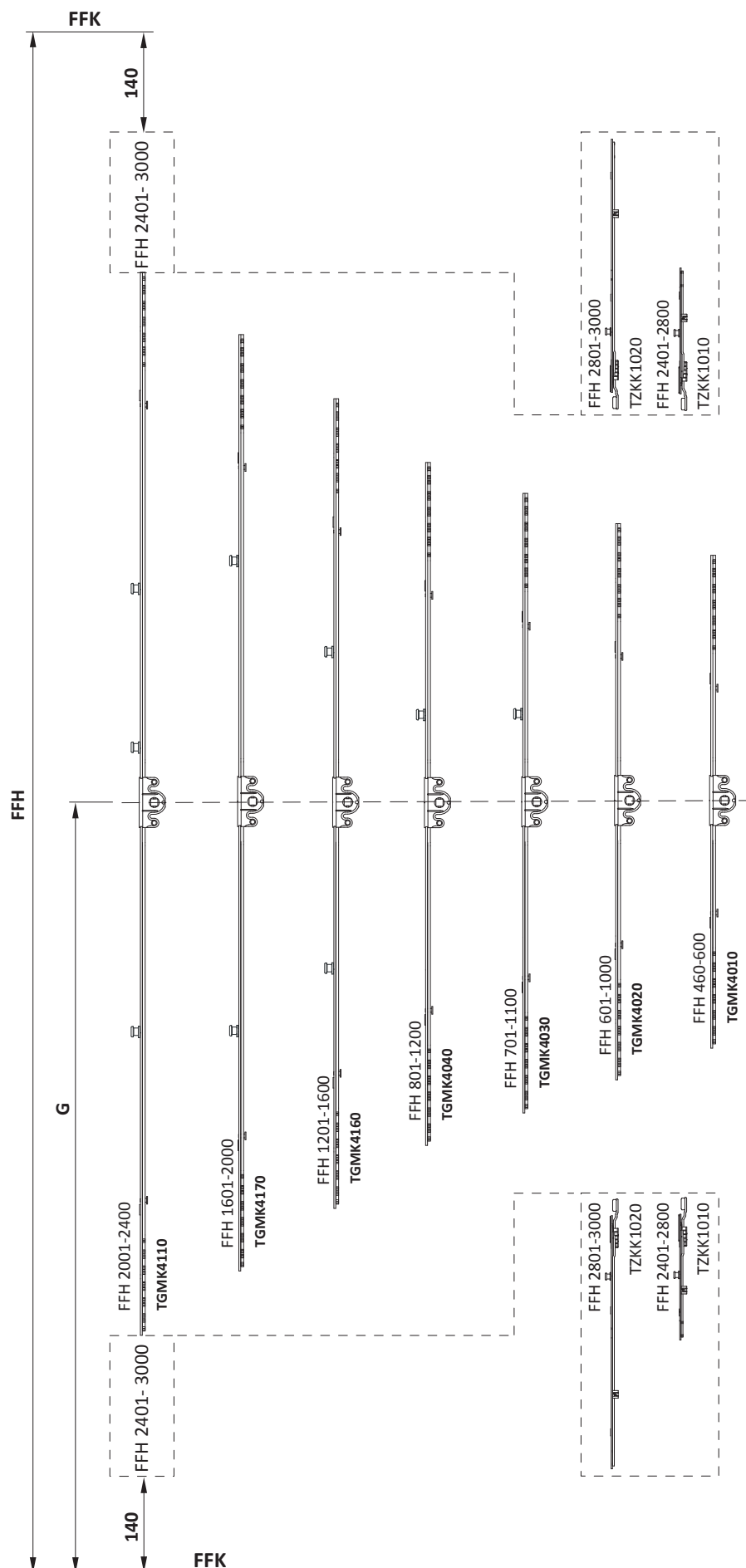
3.1



## Application matrix for gear 15 AF

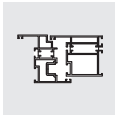
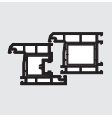
Handle height centre/variable  
Locking distance 700 mm

**TITAN AF**



3.1





## Application matrix for gear 15 AF



Handle height centre/variable  
Locking distance 700 mm

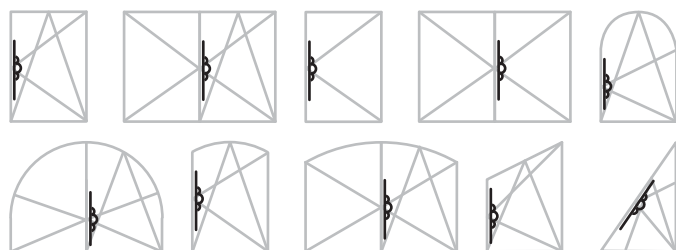
**TITAN AF**

Material number	Description	Material number	Description	FFH (mm)	G (mm)
TGMK4010	gear 15 AF sz 20			460 - 600	230 - 300
TGMK4020	gear 15 AF sz 60			601 - 1000	300 - 500
TGMK4030	gear 15 AF sz 70 1RS			701 - 1100	350 - 550
TGMK4040	gear 15 AF sz 80 1RS			801 - 1200	400 - 600
TGMK4160	gear 15 AF sz 120 2RS			1201 - 1600	600 - 800
TGMK4170	gear 15 AF sz 160 2RS 70			1601 - 2000	800 - 1000
TGMK4110	gear 15 AF sz 200 3RS 70			2001 - 2400	1000 - 1200
TGMK4110	gear 15 AF sz 200 3RS 70	TZKK1010	2 linkages KK/AF sz 1 1RS	2401 - 2800	1200 - 1400
TGMK4110	gear 15 AF sz 200 3RS 70	TZKK1020	2 linkages KK/AF sz 2 1RS	2801 - 3000	1400 - 1500

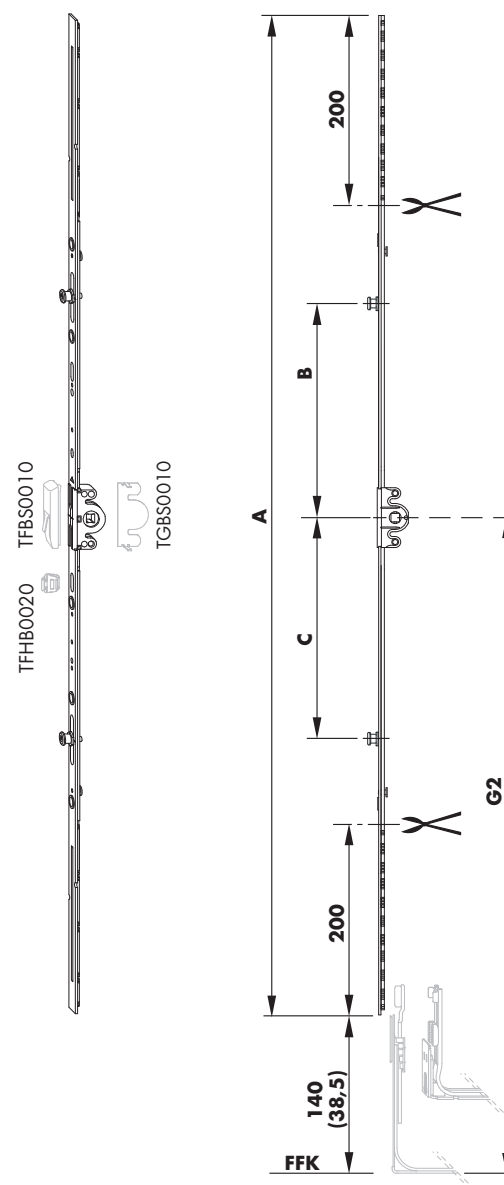


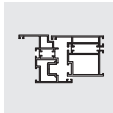
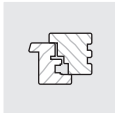
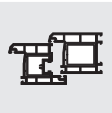
## Technical information

Part number	Description	FFH	Dimensions (mm)					
			G2	A	B	C		
TGMK4010-...	gear 15 AF sz 20	260 - 600	130 - 300	630	-	-	0	0
TGMK4020-...	gear 15 AF sz 60	601 - 1000	300 - 500	720	-	-	0	2
TGMK4030-...	gear 15 AF sz 70 1RS	-	350 - 550	820	80	-	1	2
TGMK4040-...	gear 15 AF sz 80 1RS	-	400 - 600	920	80	-	1	3
TGMK4050-...	gear 15 AF sz 120 1RS	-	600 - 800	1320	80	-	1	5
TGMK4160-...	gear 15 AF sz 120 2RS 70	-	600 - 800	1320	280	320	2	6
TGMK4170-...	gear 15 AF sz 160 2RS 70	-	800 - 1000	1720	280	408	2	7
TGMK4080-...	gear 15 AF sz 200 2RS	-	1000 - 1500	2120	392	408	2	9



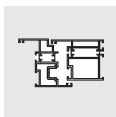
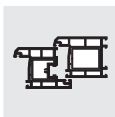
- Handle height centre/variable





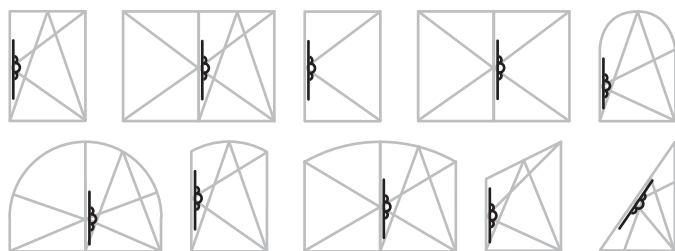
## Sales information

Description	Part number	Surface	Colour	Box quantity
gear 15 AF sz 20	TGMK4010-10001_	Titan Silver	without	1 pc
	TGMK4010-10004_	Titan Silver	without	25 pcs
gear 15 AF sz 60	TGMK4020-10001_	Titan Silver	without	1 pc
	TGMK4020-10004_	Titan Silver	without	25 pcs
gear 15 AF sz 70 1RS	TGMK4030-10001_	Titan Silver	without	1 pc
	TGMK4030-10004_	Titan Silver	without	25 pcs
gear 15 AF sz 80 1RS	TGMK4040-10001_	Titan Silver	without	1 pc
	TGMK4040-10004_	Titan Silver	without	25 pcs
gear 15 AF sz 120 1RS	TGMK4050-10001_	Titan Silver	without	1 pc
	TGMK4050-10004_	Titan Silver	without	25 pcs
gear 15 AF sz 120 2RS 70	TGMK4160-10001_	Titan Silver	without	1 pc
	TGMK4160-10004_	Titan Silver	without	25 pcs
gear 15 AF sz 160 2RS 70	TGMK4170-10001_	Titan Silver	without	1 pc
	TGMK4170-10002_	Titan Silver	without	10 pcs
gear 15 AF sz 200 2RS	TGMK4080-10001_	Titan Silver	without	1 pc
	TGMK4080-10002_	Titan Silver	without	10 pcs

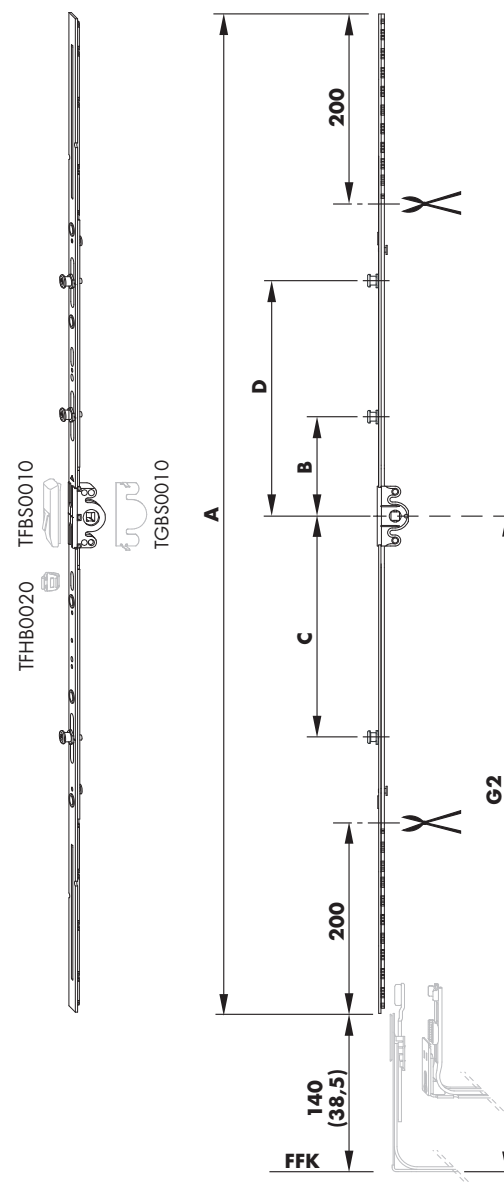


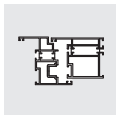
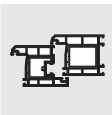
## Technical information

Part number	Description	FFH	G2	Dimensions (mm)					
				A	B	C	D		
TGMK4010-...	gear 15 AF sz 20	260 - 600	130 - 300	630	-	-	-	0	0
TGMK4020-...	gear 15 AF sz 60	601 - 1000	300 - 500	720	-	-	-	0	2
TGMK4030-...	gear 15 AF sz 70 1RS	-	350 - 550	820	80	-	-	1	2
TGMK4040-...	gear 15 AF sz 80 1RS	-	400 - 600	920	80	-	-	1	3
TGMK4160-...	gear 15 AF sz 120 2RS 70	-	600 - 800	1320	280	320	-	2	6
TGMK4170-...	gear 15 AF sz 160 2RS 70	-	800 - 1000	1720	280	408	-	2	7
TGMK4110-...	gear 15 AF sz 200 3RS 70	-	1000 - 1500	2120	80	498	502	3	9



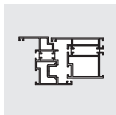
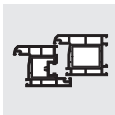
- Handle height centre/variable
- Locking distance 700 mm





## Sales information

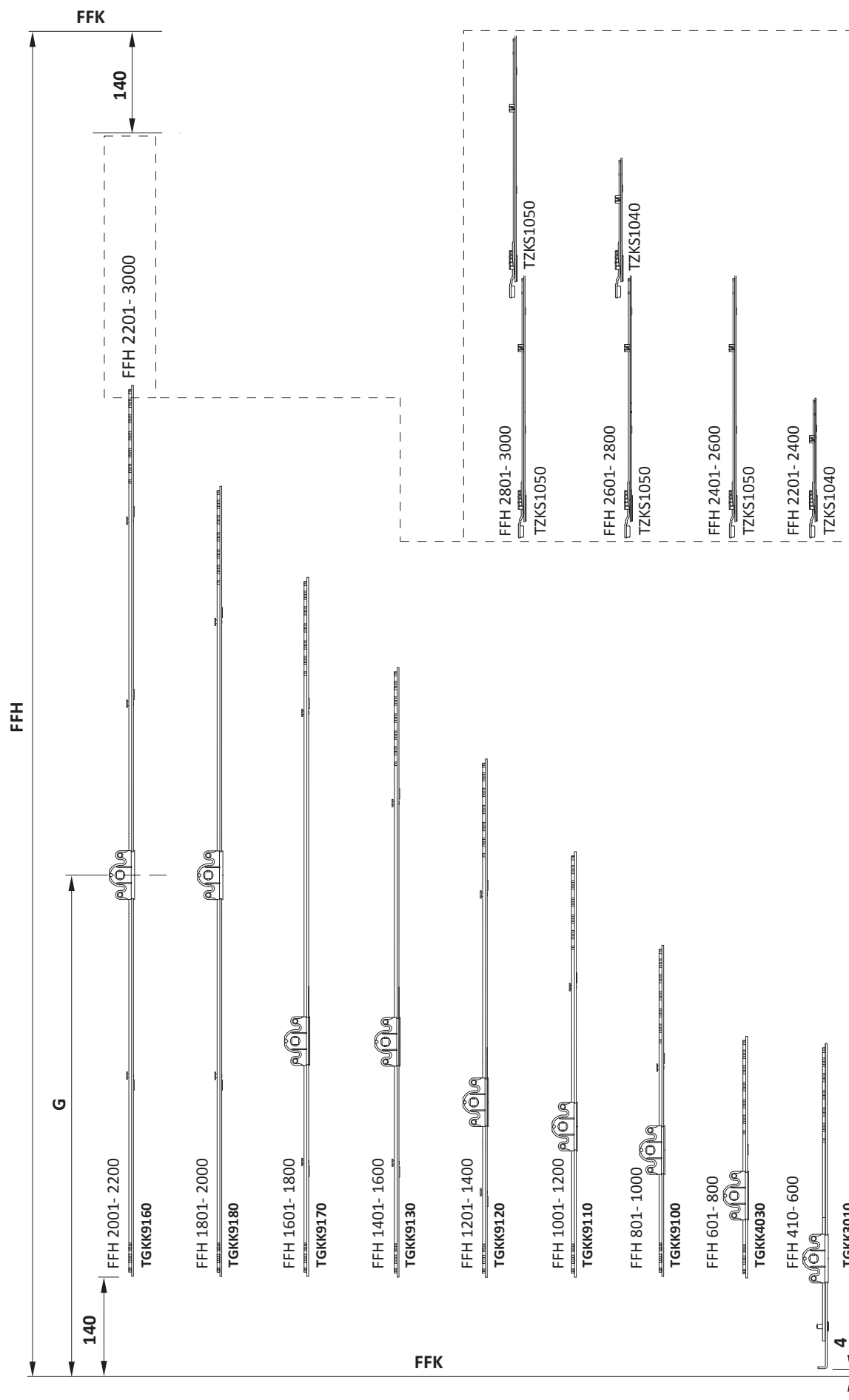
Description	Part number	Surface	Colour	Box quantity
gear 15 AF sz 20	TGMK4010-10001_	Titan Silver	without	1 pc
	TGMK4010-10004_	Titan Silver	without	25 pcs
gear 15 AF sz 60	TGMK4020-10001_	Titan Silver	without	1 pc
	TGMK4020-10004_	Titan Silver	without	25 pcs
gear 15 AF sz 70 1RS	TGMK4030-10001_	Titan Silver	without	1 pc
	TGMK4030-10004_	Titan Silver	without	25 pcs
gear 15 AF sz 80 1RS	TGMK4040-10001_	Titan Silver	without	1 pc
	TGMK4040-10004_	Titan Silver	without	25 pcs
gear 15 AF sz 120 2RS 70	TGMK4160-10001_	Titan Silver	without	1 pc
	TGMK4160-10004_	Titan Silver	without	25 pcs
gear 15 AF sz 160 2RS 70	TGMK4170-10001_	Titan Silver	without	1 pc
	TGMK4170-10002_	Titan Silver	without	10 pcs
gear 15 AF sz 200 3RS 70	TGMK4110-10001_	Titan Silver	without	1 pc
	TGMK4110-10002_	Titan Silver	without	10 pcs



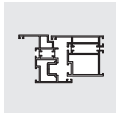
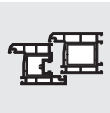
# Application matrix for gear 15 AF OZ

Handle height constant

TITAN AF



3.1



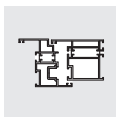
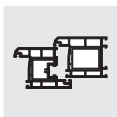
## Application matrix for gear 15 AF OZ

Handle height constant



**TITAN AF**

Material number	Description	Material number	Description	FFH (mm)	G (mm)
<b>TGKK3010</b>	gear 15 sz 30/G180			410 - 600	180
<b>TGKK4030</b>	gear 15 AF sz 60/G300			601 - 800	300
<b>TGKK9100</b>	gear 15 AF OZ sz 80/G400			801 - 1000	400
<b>TGKK9110</b>	gear 15 AF OZ sz 100/G500			1001 - 1200	500
<b>TGKK9120</b>	gear 15 AF OZ sz 120/G600			1201 - 1400	600
<b>TGKK9130</b>	gear 15 AF OZ sz 140/G700			1401 - 1600	700
<b>TGKK9170</b>	gear 15 AF OZ sz 160/G700			1601 - 1800	700
<b>TGKK9180</b>	gear 15 AF OZ sz 180/G1000			1801 - 2000	1000
<b>TGKK9160</b>	gear 15 AF OZ sz 200/G1000			2001 - 2200	1000
<b>TGKK9160</b>	gear 15 AF OZ sz 200/G1000	<b>TZKS1040</b>	linkage AF sz 1 A0767	2201 - 2400	1000
<b>TGKK9160</b>	gear 15 AF OZ sz 200/G1000	<b>TZKS1050</b>	linkage AF sz 2 A0767	2401 - 2600	1000
<b>TGKK9160</b>	gear 15 AF OZ sz 200/G1000	<b>TZKS1040</b>	linkage AF sz 1 A0767	2601 - 2800	1000
		<b>TZKS1050</b>	linkage AF sz 2 A0767		
<b>TGKK9160</b>	gear 15 AF OZ sz 200/G1000	<b>TZKS1050</b>	linkage AF sz 2 A0767	2801 - 3000	1000
		<b>TZKS1050</b>	linkage AF sz 2 A0767		

3.1

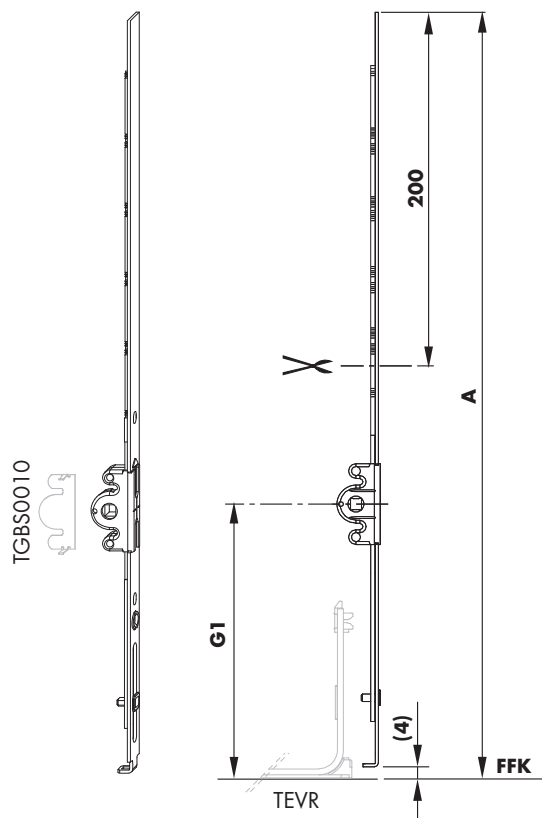


## Technical information

Part number	Description	Dimensions (mm)			
		G1	A		
TGKK3010-...	gear 15 sz 30/G180	180	495	0	1



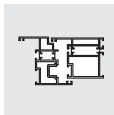
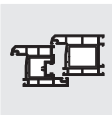
- Handle height constant
- Applicable in the secondary sash with the 2nd handle



## Sales information

Description	Part number	Surface	Colour	Box quantity
gear 15 sz 30/G180	TGKK3010-10001_	Titan Silver	without	1 pc
	TGKK3010-10004_	Titan Silver	without	25 pcs



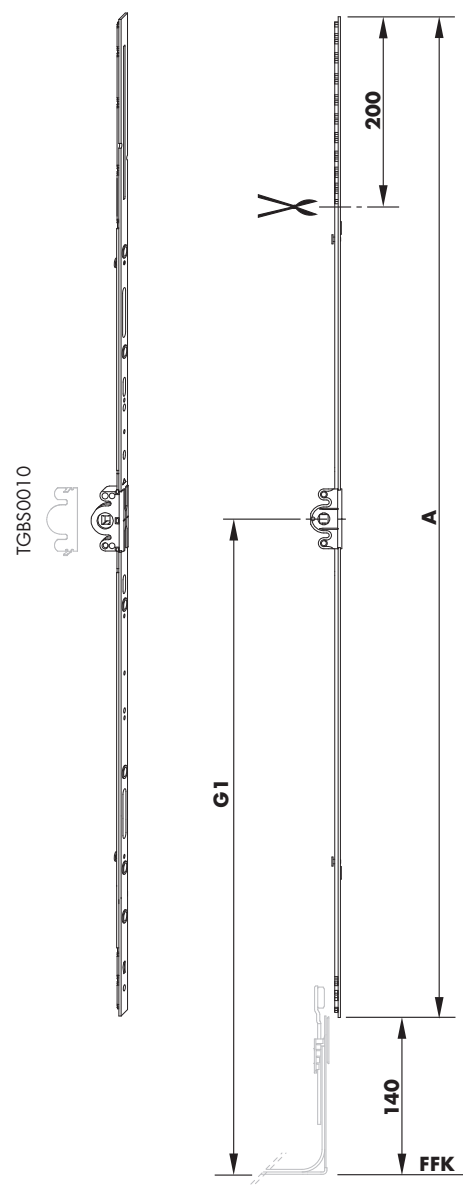


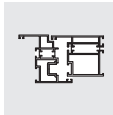
## Technical information

Part number	Description	FFH	Dimensions (mm)			
			G1	A		
TGKK9100-...	gear 15 AF OZ sz 80/G400	801 - 1000	400	720	0	3
TGKK9110-...	gear 15 AF OZ sz 100/G500	1001 - 1200	500	920	0	4
TGKK9120-...	gear 15 AF OZ sz 120/G600	1201 - 1400	600	1120	0	5
TGKK9130-...	gear 15 AF OZ sz 140/G700	1401 - 1600	700	1320	0	6
TGKK9170-...	gear 15 AF OZ sz 160/G700	1601 - 1800	700	1520	0	7
TGKK9180-...	gear 15 AF OZ sz 180/G1000	1801 - 2000	1000	1720	0	8
TGKK9160-...	gear 15 AF OZ sz 200/G1000	2001 - 3000	1000	1920	0	9



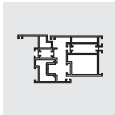
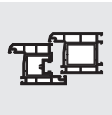
- Handle height constant
- Applicable in the secondary sash with the 2nd handle

**3.1**



## Sales information

Description	Part number	Surface	Colour	Box quantity
gear 15 AF OZ sz 80/G400	TGKK9100-10001_	Titan Silver	without	1 pc
	TGKK9100-10004_	Titan Silver	without	25 pcs
gear 15 AF OZ sz 100/G500	TGKK9110-10001_	Titan Silver	without	1 pc
	TGKK9110-10004_	Titan Silver	without	25 pcs
gear 15 AF OZ sz 120/G600	TGKK9120-10001_	Titan Silver	without	1 pc
	TGKK9120-10004_	Titan Silver	without	25 pcs
gear 15 AF OZ sz 140/G700	TGKK9130-10001_	Titan Silver	without	1 pc
	TGKK9130-10004_	Titan Silver	without	25 pcs
gear 15 AF OZ sz 160/G700	TGKK9170-10001_	Titan Silver	without	1 pc
	TGKK9170-10004_	Titan Silver	without	25 pcs
gear 15 AF OZ sz 180/G1000	TGKK9180-10001_	Titan Silver	without	1 pc
	TGKK9180-10002_	Titan Silver	without	10 pcs
gear 15 AF OZ sz 200/G1000	TGKK9160-10001_	Titan Silver	without	1 pc
	TGKK9160-10002_	Titan Silver	without	10 pcs

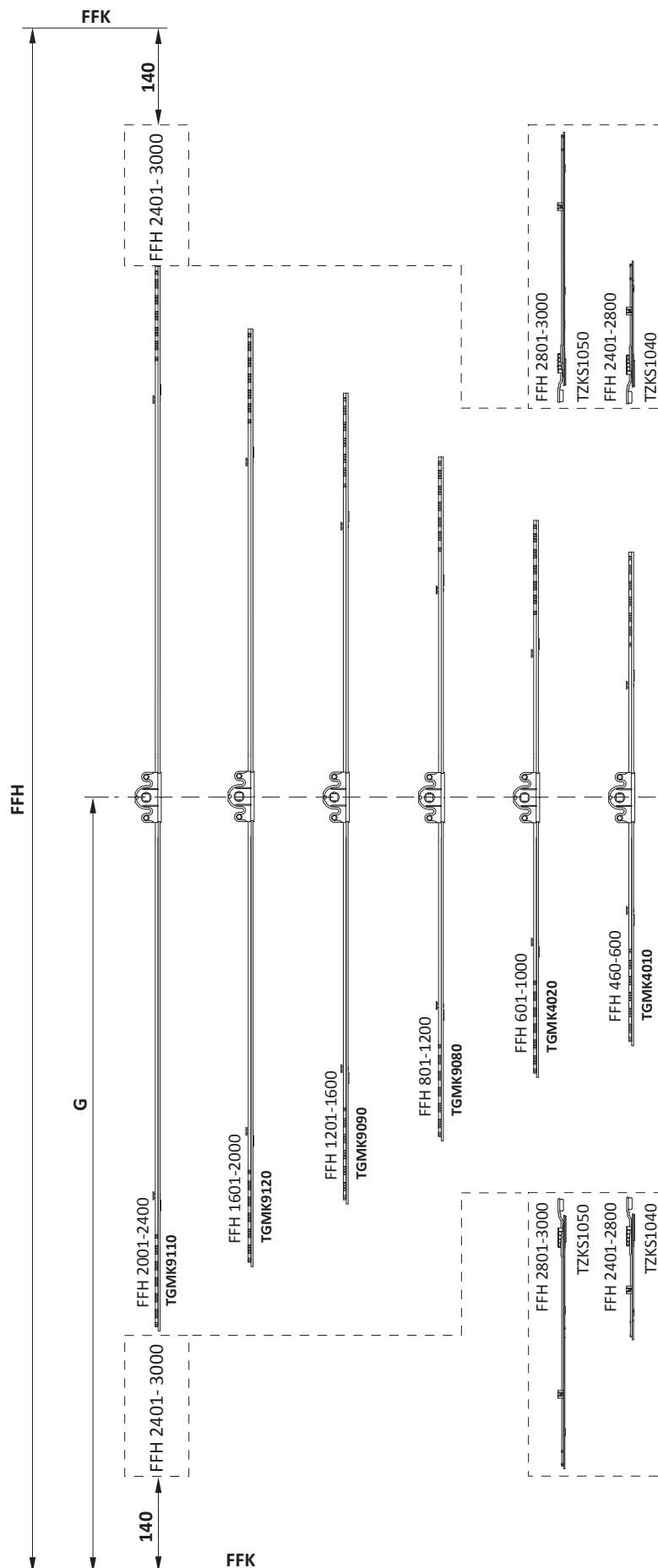


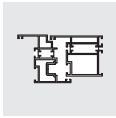
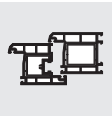
## Application matrix for gear 15 AF OZ

Handle height centre/variable

**TITAN AF**

3.1





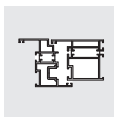
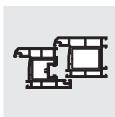
## Application matrix for gear 15 AF OZ

Handle height centre/variable

**TITAN AF**

Material number	Description	Material number	Description	FFH (mm)	G (mm)
<b>TGMK4010</b>	gear 15 AF sz 20			460 - 600	230 - 300
<b>TGMK4020</b>	gear 15 AF sz 60			601 - 1000	300 - 500
<b>TGMK9080</b>	gear 15 AF OZ sz 80			801 - 1200	400 - 600
<b>TGMK9090</b>	gear 15 AF OZ sz 120			1201 - 1600	600 - 800
<b>TGMK9120</b>	gear 15 AF OZ sz 160			1601 - 2000	800 - 1000
<b>TGMK9110</b>	gear 15 AF OZ sz 200			2001 - 2400	1000 - 1200
<b>TGMK9110</b>	gear 15 AF OZ sz 200	<b>TZZS0150</b>	<b>2</b> linkages AF sz 1	2401 - 2800	1200 - 1400
<b>TGMK9110</b>	gear 15 AF OZ sz 200	<b>TZZS0230</b>	<b>2</b> linkages AF sz 2	2801 - 3000	1400 - 1500

3.1



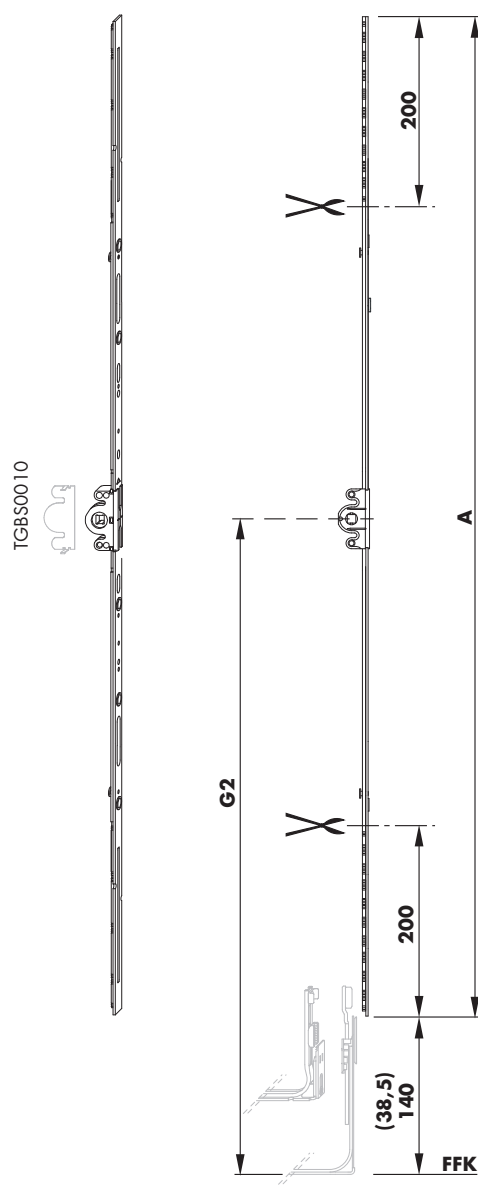
## Technical information

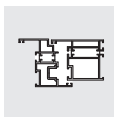
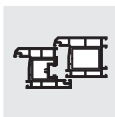
Part number	Description	FFH	Dimensions (mm)			
			G2	A		
TGMK9080-...	gear 15 AF OZ sz 80	801 - 1200	400 - 600	920	0	3
TGMK9090-...	gear 15 AF OZ sz 120	1201 - 1600	600 - 800	1320	0	5
TGMK9120-...	gear 15 AF OZ sz 160	1601 - 2000	800 - 1000	1720	0	7
TGMK9110-...	gear 15 AF OZ sz 200	2001 - 3000	1000 - 1500	2120	0	9



- Handle height centre/variable
- Applicable in the secondary sash with the 2nd handle

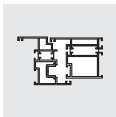
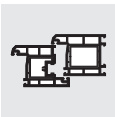
3.1



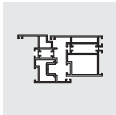
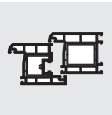


## Sales information

Description	Part number	Surface	Colour	Box quantity
gear 15 AF OZ sz 80	TGMK9080-10001_	Titan Silver	without	1 pc
	TGMK9080-10004_	Titan Silver	without	25 pcs
gear 15 AF OZ sz 120	TGMK9090-10001_	Titan Silver	without	1 pc
	TGMK9090-10004_	Titan Silver	without	25 pcs
gear 15 AF OZ sz 160	TGMK9120-10001_	Titan Silver	without	1 pc
	TGMK9120-10002_	Titan Silver	without	10 pcs
gear 15 AF OZ sz 200	TGMK9110-10001_	Titan Silver	without	1 pc
	TGMK9110-10002_	Titan Silver	without	10 pcs



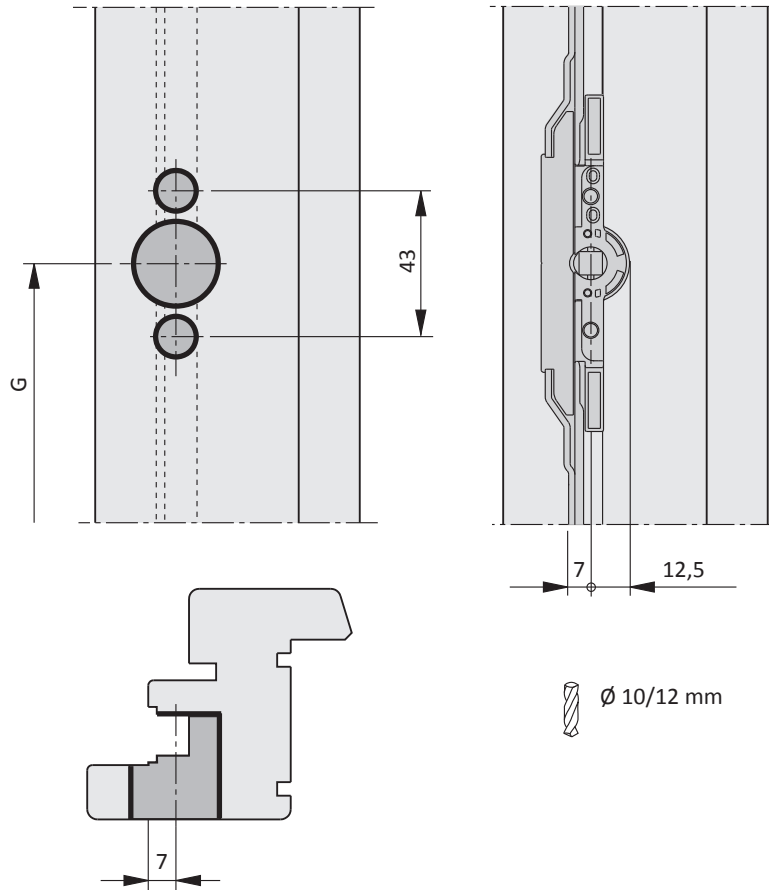
Description	Material	Page
Drill holes and routing		3.2 - 2
Application matrix: gear 7 AF, handle height constant		3.2 - 3
Application matrix: gear 7 AF, handle height constant, locking distance 700 mm		3.2 - 5
gear 7 AF GK	TGKK1310	3.2 - 7
gear 7 AF GK FH FBS	TGKK1490	3.2 - 8
gear 7 AF GK	TGKK1320, TGKK1330, TGKK1340, TGKK1350, TGKK1360, TGKK1370, TGKK1580, TGKK1540, TGKK1400	3.2 - 9
gear 7 AF GK 700	TGKK1320, TGKK1340, TGKK1350, TGKK1360, TGKK1570, TGKK1580, TGKK1540, TGKK1550, TGKK1560	3.2 - 11
gear 7 AF GK	TGKK1590, TGKK1510, TGKK1410, TGKK1520, TGKK1420, TGKK1430, TGKK1440, TGKK1450, TGKK1460, TGKK1470, TGKK1480, TGKK1530	3.2 - 13
Application matrix: gear 7 AF, handle height centre/variable		3.2 - 15
Application matrix: gear 7 AF, handle height centre/variable, locking distance 700 mm		3.2 - 17
gear 7 AF GM	TGMK1310, TGMK1320, TGMK1330, TGMK1340, TGMK1350, TGMK1410, TGMK1380	3.2 - 19
gear 7 AF GM 700	TGMK1310, TGMK1320, TGMK1330, TGMK1340, TGMK1400, TGMK1410, TGMK1390	3.2 - 21



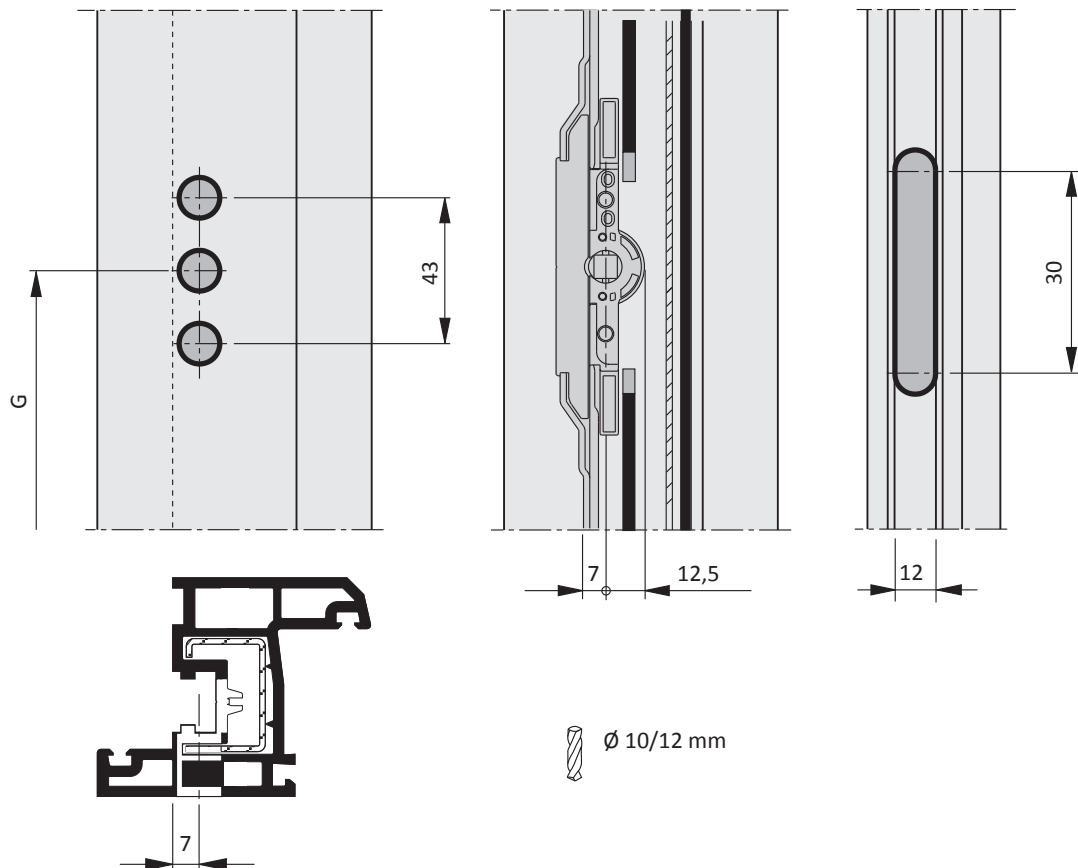
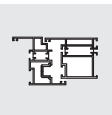
## 7 AF gear

Drill holes and routing  
Backset 7

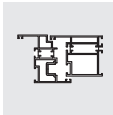
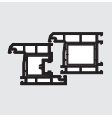
**TITAN**



3.2



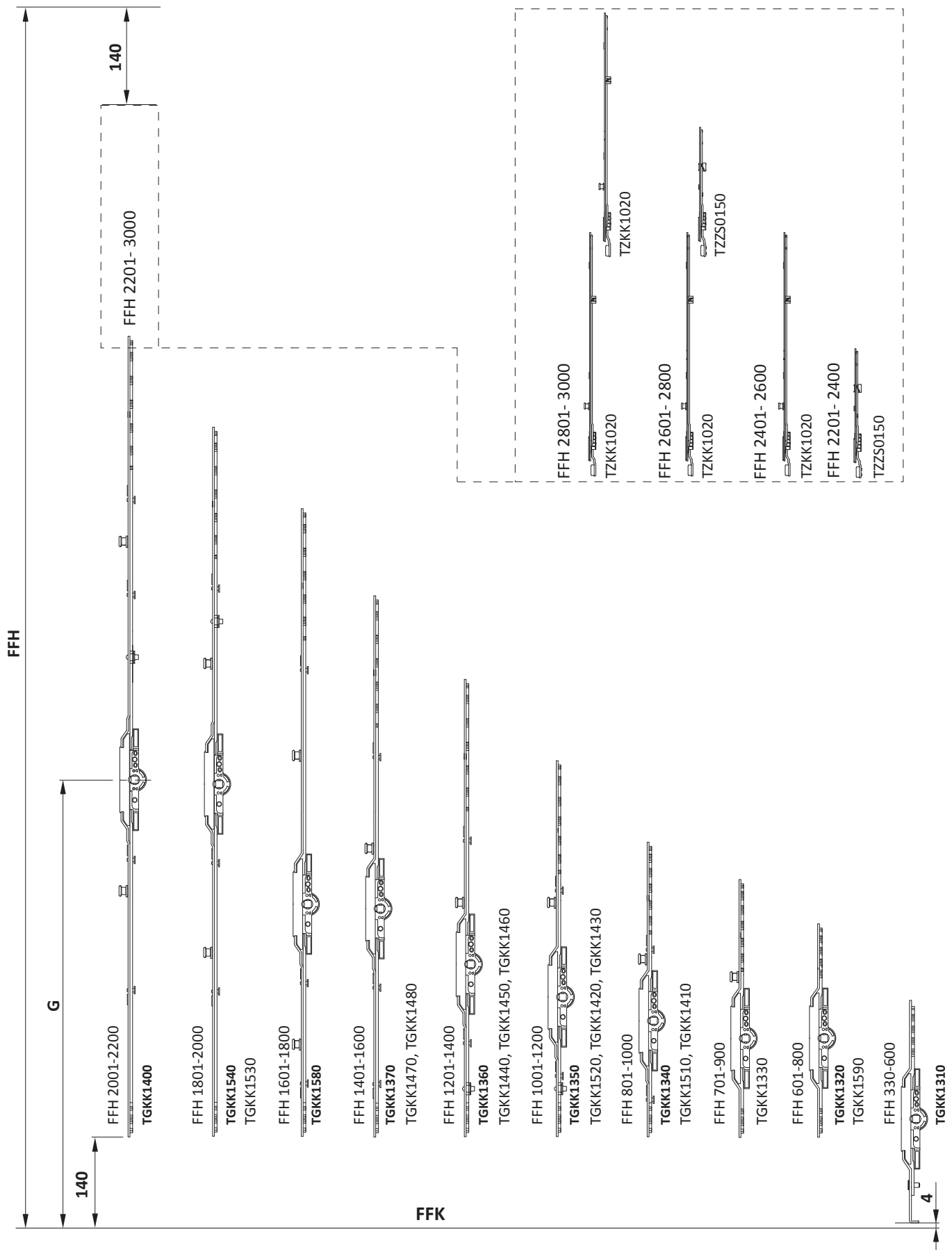




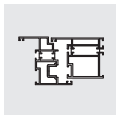
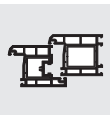
## Application matrix for gear 7 AF

Handle height constant

**TITAN AF**



3.2



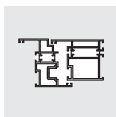
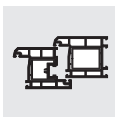
## Application matrix for gear 7 AF

Handle height constant

**TITAN AF**

3.2

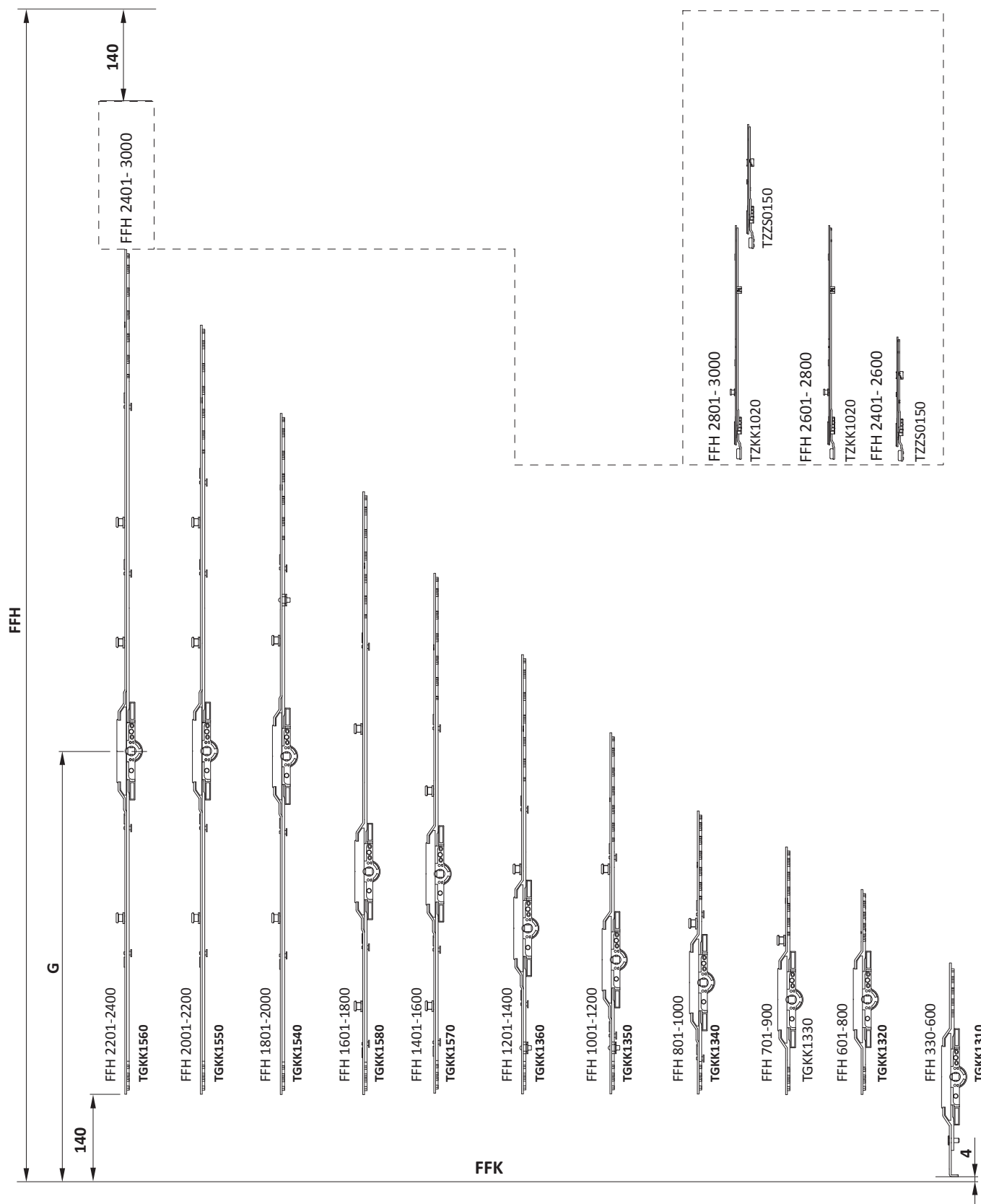
Material number	Description	Material number	Description	FFH (mm)	G (mm)
<b>TGKK1310</b>	gear 7 AF sz 40/G180			330 - 600	180
<b>TGKK1320</b>	gear 7 AF sz 60/G300			601 - 800	300
<b>TGKK1590</b>	gear 7 AF sz 60/G250 FBS			601 - 800	250
<b>TGKK1330</b>	gear 7 AF sz 70/G300 FBS			701 - 900	300
<b>TGKK1340</b>	gear 7 AF sz 80/G400 1RS			801 - 1000	400
<b>TGKK1510</b>	gear 7 AF sz 80/G250 1RS			801 - 1000	250
<b>TGKK1410</b>	gear 7 AF sz 80/G300 1RS			801 - 1000	300
<b>TGKK1350</b>	gear 7 AF sz 100/G500 1RS			1001 - 1200	500
<b>TGKK1520</b>	gear 7 AF sz 100/G250 1RS			1001 - 1200	250
<b>TGKK1420</b>	gear 7 AF sz 100/G300 1RS			1001 - 1200	300
<b>TGKK1430</b>	gear 7 AF sz 100/G400 1RS			1001 - 1200	400
<b>TGKK1360</b>	gear 7 AF sz 120/G600 1RS			1201 - 1400	600
<b>TGKK1440</b>	gear 7 AF sz 120/G300 1RS			1201 - 1400	300
<b>TGKK1450</b>	gear 7 AF sz 120/G400 1RS			1201 - 1400	400
<b>TGKK1460</b>	gear 7 AF sz 120/G500 1RS			1201 - 1400	500
<b>TGKK1370</b>	gear 7 AF sz 140/G700 1RS			1401 - 1600	700
<b>TGKK1470</b>	gear 7 AF sz 140/G500 1RS			1401 - 1600	500
<b>TGKK1480</b>	gear 7 AF sz 140/G600 1RS			1401 - 1600	600
<b>TGKK1580</b>	gear 7 AF sz 160/G700 2RS 70			1601 - 1800	700
<b>TGKK1540</b>	gear 7 AF sz 180/G1000 2RS 70			1801 - 2000	1000
<b>TGKK1530</b>	gear 7 AF sz 180/G800 2RS			1801 - 2000	800
<b>TGKK1400</b>	gear 7 AF sz 200/G1000 2RS			2001 - 2200	1000
<b>TGKK1400</b>	gear 7 AF sz 200/G1000 2RS	<b>TZZS0150</b>	linkage AF sz 1	2201 - 2400	1000
<b>TGKK1400</b>	gear 7 AF sz 200/G1000 2RS	<b>TZKK1020</b>	linkage KK/AF sz 2 1RS	2401 - 2600	1000
<b>TGKK1400</b>	gear 7 AF sz 200/G1000 2RS	<b>TZKK1020</b>	linkage KK/AF sz 2 1RS	2601 - 2800	1000
		<b>TZZS0150</b>	linkage AF sz 1		
<b>TGKK1400</b>	gear 7 AF sz 200/G1000 2RS	<b>TZKK1020</b>	linkage KK/AF sz 2 1RS	2801 - 3000	1000
		<b>TZKK1020</b>	linkage KK/AF sz 2 1RS		



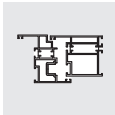
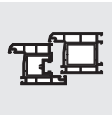
# Application matrix for gear 7 AF

Handle height constant  
Locking distance 700 mm

TITAN AF



3.2



## Application matrix for gear 7 AF

Handle height constant  
Locking distance 700 mm



**TITAN AF**

Material number	Description	Material number	Description	FFH (mm)	G (mm)
<b>TGKK1310</b>	gear 7 AF sz 40/G180			330 - 600	180
<b>TGKK1320</b>	gear 7 AF sz 60/G300			601 - 800	300
<b>TGKK1340</b>	gear 7 AF sz 80/G400 1RS			801 - 1000	400
<b>TGKK1350</b>	gear 7 AF sz 100/G500 1RS			1001 - 1200	500
<b>TGKK1360</b>	gear 7 AF sz 120/G600 1RS			1201 - 1400	600
<b>TGKK1570</b>	gear 7 AF sz 140/G700 2RS 70			1401 - 1600	700
<b>TGKK1580</b>	gear 7 AF sz 160/G700 2RS 70			1601 - 1800	700
<b>TGKK1540</b>	gear 7 AF sz 180/G1000 2RS 70			1801 - 2000	1000
<b>TGKK1550</b>	gear 7 AF sz 200/G1000 3RS 70			2001 - 2200	1000
<b>TGKK1560</b>	gear 7 AF sz 220/G1000 3RS 70			2201 - 2400	1000
<b>TGKK1560</b>	gear 7 AF sz 220/G1000 3RS 70	<b>TZZS0150</b>	linkage AF sz 1	2401 - 2600	1000
<b>TGKK1560</b>	gear 7 AF sz 220/G1000 3RS 70	<b>TZKK1020</b>	linkage KK/AF sz 2 1RS	2601 - 2800	1000
<b>TGKK1560</b>	gear 7 AF sz 220/G1000 3RS 70	<b>TZKK1020</b>	linkage KK/AF sz 2 1RS	2801 - 3000	1000
		<b>TZZS0150</b>	linkage AF sz 1		

3.2

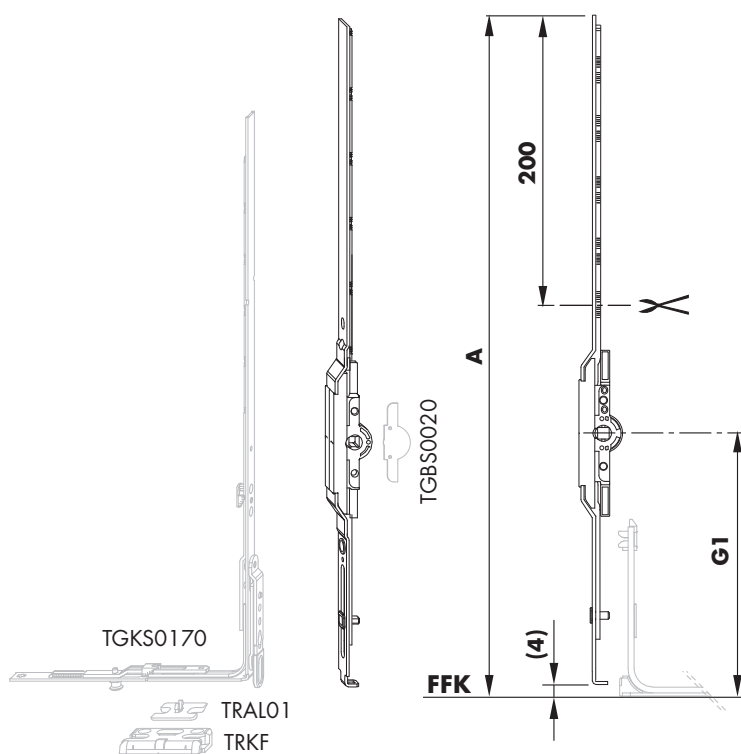


## Technical information

Part number	Description	FFH	Dimensions (mm)			
			G1	A		
TGKK1310-...	gear 7 AF sz 40/G180	330 - 600	180	495	0	1

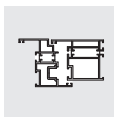
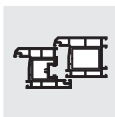


- Handle height constant



## Sales information

Description	Part number	Surface	Colour	Box quantity
gear 7 AF sz 40/G180	TGKK1310-10001_	Titan Silver	without	1 pc
	TGKK1310-10004_	Titan Silver	without	25 pcs



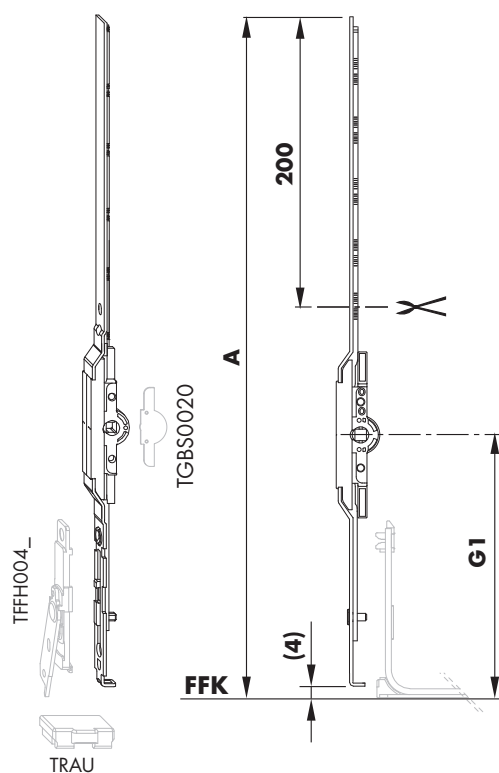
## Technical information

Part number	Description	FFH	Dimensions (mm)			
			G1	A		
TGKK1490-...	gear 7 AF sz 40/G180 FH FBS	330 - 600	180	495	0	1



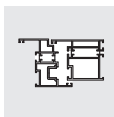
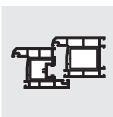
- Handle height constant
- Run up block for sash lift FBS, refer to PDB line item TRAU

## 3.2





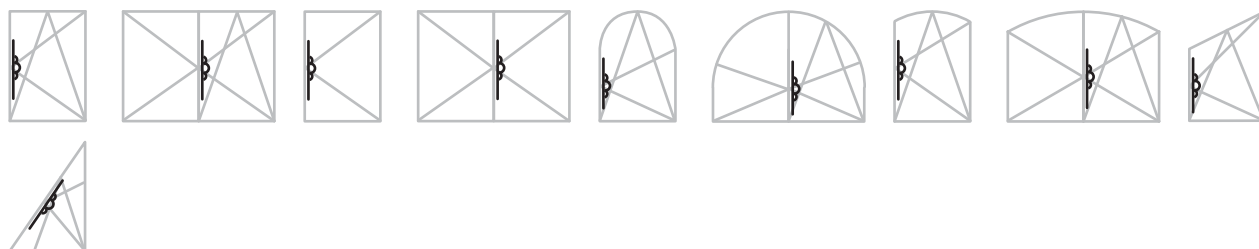
## Sales information

Description	Part number	Surface	Colour	Box quantity
gear 7 AF sz 40/G180 FH FBS	TGKK1490-10001_	Titan Silver	without	1 pc
	TGKK1490-10004_	Titan Silver	without	25 pcs

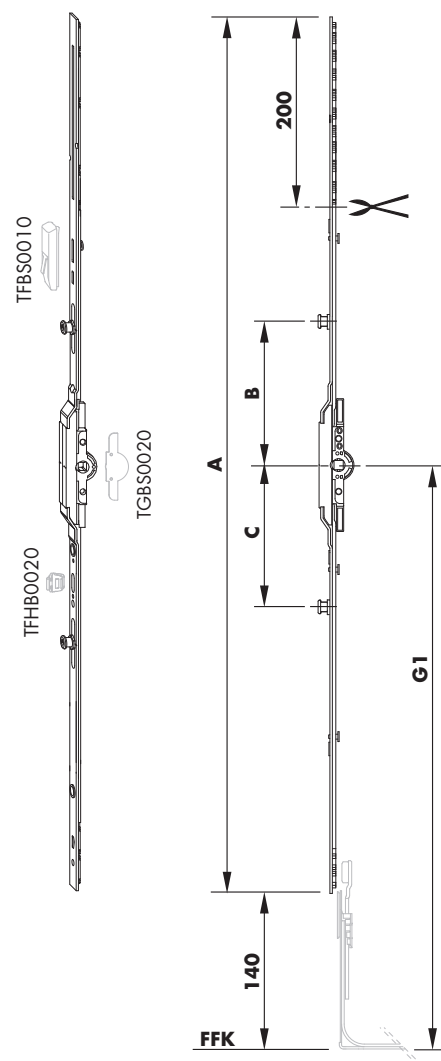


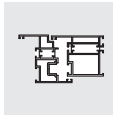
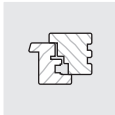
## Technical information

Part number	Description	FFH	Dimensions (mm)					
			G1	A	B	C		
TGKK1320-...	gear 7 AF sz 60/G300	601 - 800	300	520	-	-	0	2
TGKK1330-...	gear 7 AF sz 70/G300 1RS	701 - 900	300	620	80	-	1	2
TGKK1340-...	gear 7 AF sz 80/G400 1RS	801 - 1000	400	720	80	-	1	2
TGKK1350-...	gear 7 AF sz 100/G500 1RS	1001 - 1200	500	920	180	-	1	4
TGKK1360-...	gear 7 AF sz 120/G600 1RS	1201 - 1400	600	1120	80	-	1	5
TGKK1370-...	gear 7 AF sz 140/G700 1RS	1401 - 1600	700	1320	80	-	1	6
TGKK1580-...	gear 7 AF sz 160/G700 2RS 70	1601 - 1800	700	1520	380	320	2	7
TGKK1540-...	gear 7 AF sz 180/G1000 2RS 70	1801 - 2000	1000	1720	280	420	2	8
TGKK1400-...	gear 7 AF sz 200/G1000 2RS	2001 - 2200	1000	1920	580	220	2	9



- Handle height constant
- The mishandling device TFBS0010 cannot be used with gears TGKK1320/1330

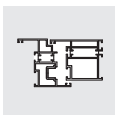
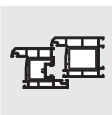




## Sales information

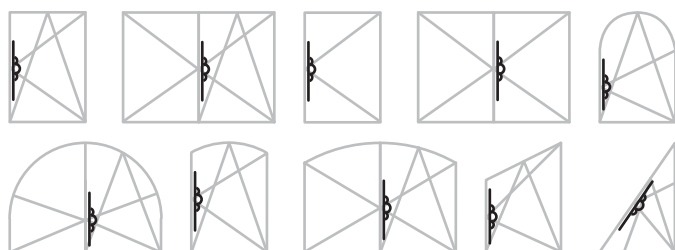
Description	Part number	Surface	Colour	Box quantity
gear 7 AF sz 60/G300	TGKK1320-10001_	Titan Silver	without	1 pc
	TGKK1320-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 70/G300 1RS	TGKK1330-10001_	Titan Silver	without	1 pc
	TGKK1330-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 80/G400 1RS	TGKK1340-10001_	Titan Silver	without	1 pc
	TGKK1340-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 100/G500 1RS	TGKK1350-10001_	Titan Silver	without	1 pc
	TGKK1350-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 120/G600 1RS	TGKK1360-10001_	Titan Silver	without	1 pc
	TGKK1360-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 140/G700 1RS	TGKK1370-10001_	Titan Silver	without	1 pc
	TGKK1370-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 160/G700 2RS 70	TGKK1580-10001_	Titan Silver	without	1 pc
	TGKK1580-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 180/G1000 2RS 70	TGKK1540-10001_	Titan Silver	without	1 pc
	TGKK1540-10002_	Titan Silver	without	10 pcs
gear 7 AF sz 200/G1000 2RS	TGKK1400-10001_	Titan Silver	without	1 pc
	TGKK1400-10002_	Titan Silver	without	10 pcs



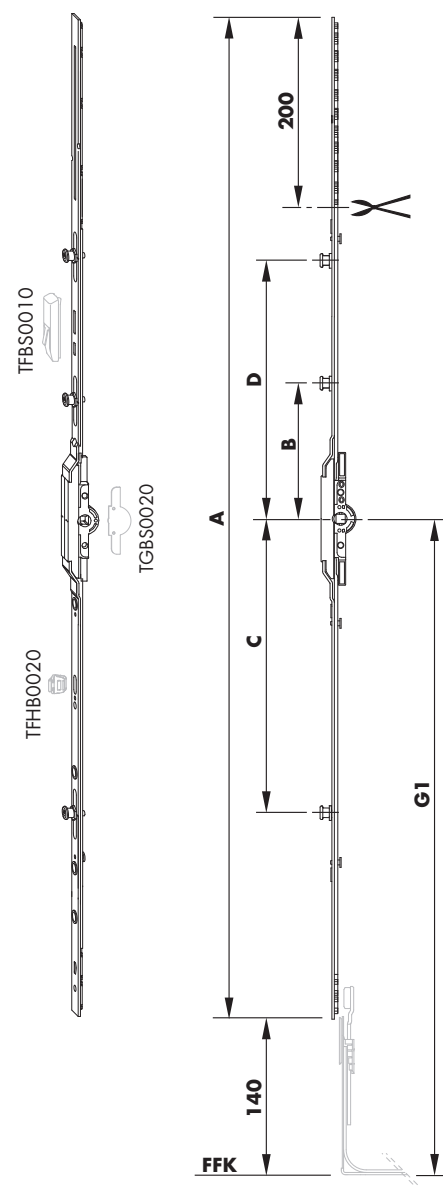


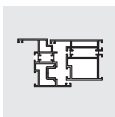
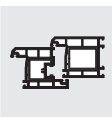
## Technical information

Part number	Description	FFH	Dimensions (mm)						
			G1	A	B	C	D		
TGKK1320-...	gear 7 AF sz 60/G300	601 - 800	300	520	-	-	-	0	2
TGKK1330-...	gear 7 AF sz 70/G300 1RS	701 - 900	300	620	80	-	-	1	2
TGKK1340-...	gear 7 AF sz 80/G400 1RS	801 - 1000	400	720	80	-	-	1	2
TGKK1350-...	gear 7 AF sz 100/G500 1RS	1001 - 1200	500	920	180	-	-	1	4
TGKK1360-...	gear 7 AF sz 120/G600 1RS	1201 - 1400	600	1120	80	-	-	1	5
TGKK1570-...	gear 7 AF sz 140/G700 2RS 70 70	1401 - 1600	700	1320	180	320	-	2	7
TGKK1580-...	gear 7 AF sz 160/G700 2RS 70	1601 - 1800	700	1520	380	320	-	2	7
TGKK1540-...	gear 7 AF sz 180/G1000 2RS 70	1801 - 2000	1000	1720	280	420	-	2	8
TGKK1550-...	gear 7 AF sz 200/G1000 3RS 70 70	2001 - 2200	1000	1920	280	420	680	3	9
TGKK1560-...	gear 7 AF sz 220/G1000 3RS 70 70	2201 - 2400	1000	2120	280	420	680	3	10
TGKK1560-...	gear 7 AF sz 220/G1000 3RS 70 70	2201 - 2400	1000	2120	280	420	680	3	10



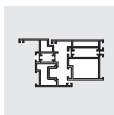
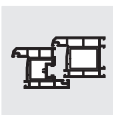
- Handle height constant
- The mishandling device TFBS0010 cannot be used with gears TGKK1320/1330
- Locking distance 700 mm





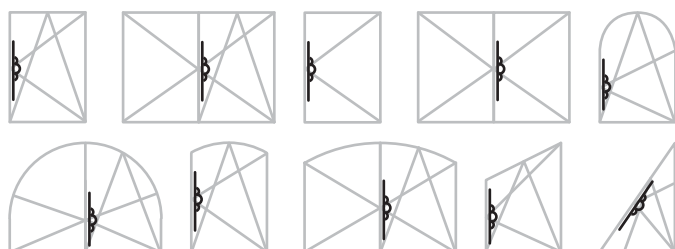
## Sales information

Description	Part number	Surface	Colour	Box quantity
gear 7 AF sz 60/G300	TGKK1320-10001_	Titan Silver	without	1 pc
	TGKK1320-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 70/G300 1RS	TGKK1330-10001_	Titan Silver	without	1 pc
	TGKK1330-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 80/G400 1RS	TGKK1340-10001_	Titan Silver	without	1 pc
	TGKK1340-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 100/G500 1RS	TGKK1350-10001_	Titan Silver	without	1 pc
	TGKK1350-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 120/G600 1RS	TGKK1360-10001_	Titan Silver	without	1 pc
	TGKK1360-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 140/G700 2RS 70 70	TGKK1570-10001_	Titan Silver	without	1 pc
	TGKK1570-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 160/G700 2RS 70	TGKK1580-10001_	Titan Silver	without	1 pc
	TGKK1580-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 180/G1000 2RS 70	TGKK1540-10001_	Titan Silver	without	1 pc
	TGKK1540-10002_	Titan Silver	without	10 pcs
gear 7 AF sz 200/G1000 3RS 70 70	TGKK1550-10001_	Titan Silver	without	1 pc
	TGKK1550-10002_	Titan Silver	without	10 pcs
gear 7 AF sz 220/G1000 3RS 70 70	TGKK1560-10001_	Titan Silver	without	1 pc
	TGKK1560-10002_	Titan Silver	without	10 pcs
	TGKK1560-10002_	Titan Silver	without	10 pcs
gear 7 AF sz 220/G1000 3RS 70 70	TGKK1560-10001_	Titan Silver	without	1 pc
	TGKK1560-10002_	Titan Silver	without	10 pcs
	TGKK1560-10002_	Titan Silver	without	10 pcs

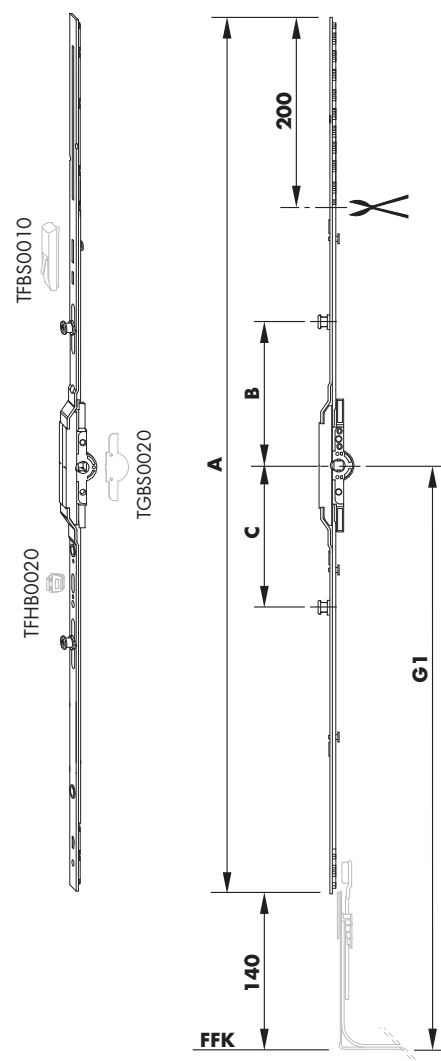


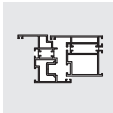
## Technical information

Part number	Description	FFH	Dimensions (mm)					
			G1	A	B	C		
TGKK1590-...	gear 7 AF sz 60/G250 FBS	-	250	520	-	-	0	1
TGKK1510-...	gear 7 AF sz 80/G250 1RS	801 - 1000	250	720	230	-	1	2
TGKK1410-...	gear 7 AF sz 80/G300 1RS	801 - 1000	300	720	180	-	1	3
TGKK1520-...	gear 7 AF sz 100/G250 1RS	1001 - 1200	250	920	430	-	1	3
TGKK1420-...	gear 7 AF sz 100/G300 1RS	1001 - 1200	300	920	380	-	1	4
TGKK1430-...	gear 7 AF sz 100/G400 1RS	1001 - 1200	400	920	280	-	1	4
TGKK1440-...	gear 7 AF sz 120/G300 1RS	1201 - 1400	300	1120	380	-	1	5
TGKK1450-...	gear 7 AF sz 120/G400 1RS	1201 - 1400	400	1120	280	-	1	6
TGKK1460-...	gear 7 AF sz 120/G500 1RS	1201 - 1400	500	1120	180	-	1	5
TGKK1470-...	gear 7 AF sz 140/G500 1RS	1401 - 1600	500	1320	280	-	1	6
TGKK1480-...	gear 7 AF sz 140/G600 1RS	1401 - 1600	600	1320	180	-	1	7
TGKK1530-...	gear 7 AF sz 180/G800 2RS	1600 - 2000	800	1720	580	220	2	8



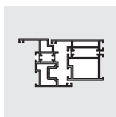
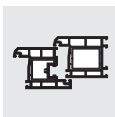
- Handle height constant





## Sales information

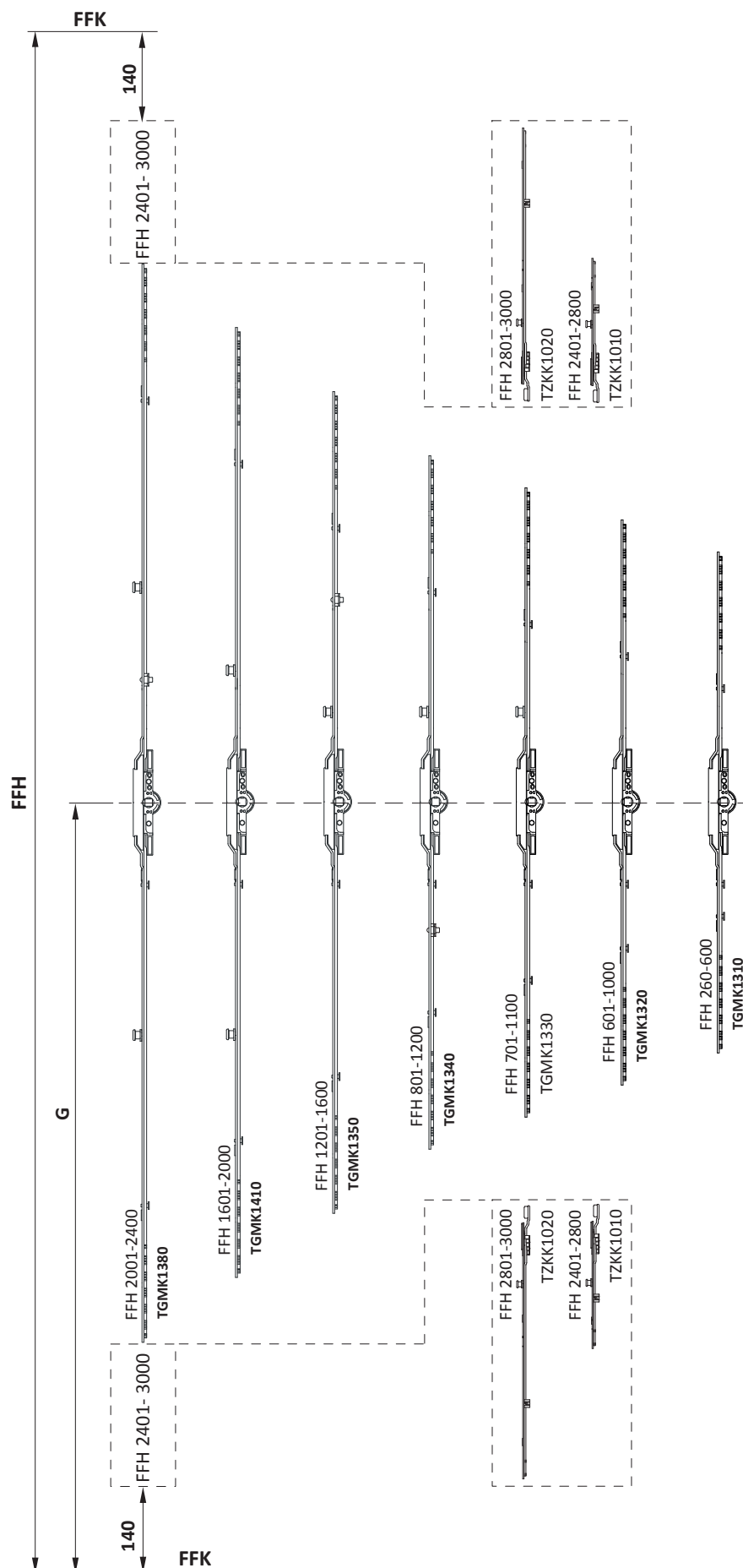
Description	Part number	Surface	Colour	Box quantity
gear 7 AF sz 60/G250 FBS	TGKK1590-10001_	Titan Silver	without	1 pc
	TGKK1590-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 80/G250 1RS	TGKK1510-10001_	Titan Silver	without	1 pc
	TGKK1510-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 80/G300 1RS	TGKK1410-10001_	Titan Silver	without	1 pc
	TGKK1410-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 100/G250 1RS	TGKK1520-10001_	Titan Silver	without	1 pc
	TGKK1520-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 100/G300 1RS	TGKK1420-10001_	Titan Silver	without	1 pc
	TGKK1420-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 100/G400 1RS	TGKK1430-10001_	Titan Silver	without	1 pc
	TGKK1430-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 120/G300 1RS	TGKK1440-10001_	Titan Silver	without	1 pc
	TGKK1440-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 120/G400 1RS	TGKK1450-10001_	Titan Silver	without	1 pc
	TGKK1450-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 120/G500 1RS	TGKK1460-10001_	Titan Silver	without	1 pc
	TGKK1460-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 140/G500 1RS	TGKK1470-10001_	Titan Silver	without	1 pc
	TGKK1470-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 140/G600 1RS	TGKK1480-10001_	Titan Silver	without	1 pc
	TGKK1480-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 180/G800 2RS	TGKK1530-10001_	Titan Silver	without	1 pc
	TGKK1530-10002_	Titan Silver	without	10 pcs



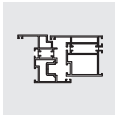
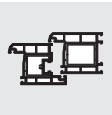
## Application matrix for gear 7 AF

Handle height centre/variable

TITAN AF



3.2

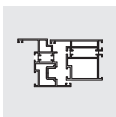
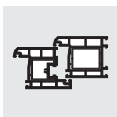


## Application matrix for gear 7 AF

Handle height centre/variable

**TITAN AF**

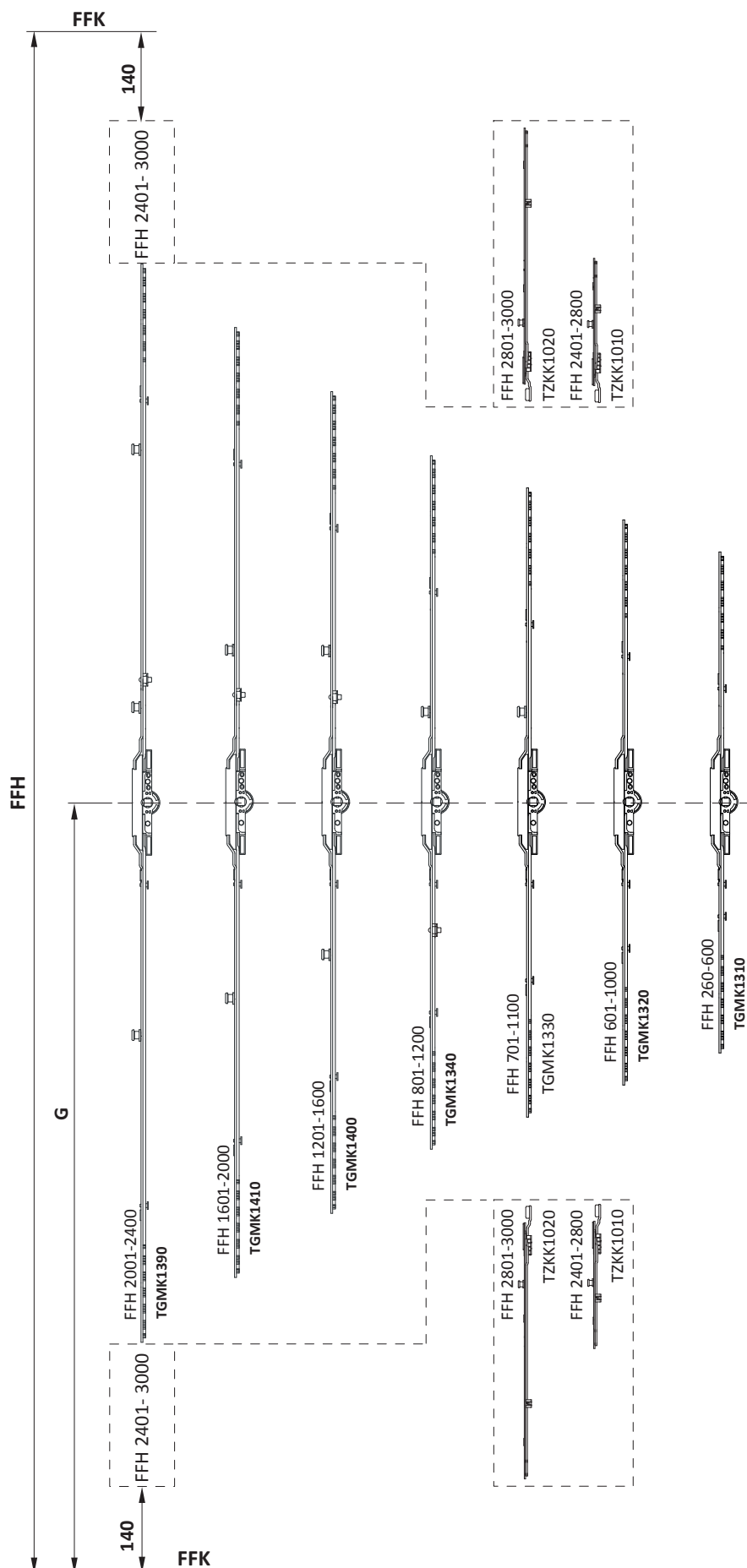
Material number	Description	Material number	Description	FFH (mm)	G (mm)
<b>TGMK1310</b>	gear 7 AF sz 20			260 - 600	130 - 300
<b>TGMK1320</b>	gear 7 AF sz 60			601 - 1000	300 - 500
<b>TGMK1330</b>	gear 7 AF sz 70 1RS			701 - 1100	350 - 550
<b>TGMK1340</b>	gear 7 AF sz 80 1RS			801 - 1200	400 - 600
<b>TGMK1350</b>	gear 7 AF sz 120 1RS			1201 - 1600	600 - 800
<b>TGMK1410</b>	gear 7 AF sz 160 2RS 70			1601 - 2000	800 - 1000
<b>TGMK1380</b>	gear 7 AF sz 200 2RS			2001 - 2400	1000 - 1200
<b>TGMK1380</b>	gear 7 AF sz 200 2RS	<b>TZKK1010</b>	<b>2</b> linkages KK/AF sz 1 1RS	2401 - 2800	1200 - 1400
<b>TGMK1380</b>	gear 7 AF sz 200 2RS	<b>TZKK1020</b>	<b>2</b> linkages KK/AF sz 2 1RS	2801 - 3000	1400 - 1500



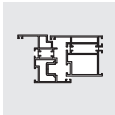
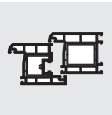
## Application matrix for gear 7 AF

Handle height centre/variable  
Locking distance 700 mm

**TITAN AF**



3.2



## Application matrix for gear 7 AF

Handle height centre/variable  
Locking distance 700 mm

**TITAN AF**



Material-number	Description	Material number	Description	FFH (mm)	G (mm)
<b>TGMK1310</b>	gear 7 AF sz 20			260 - 600	130 - 300
<b>TGMK1320</b>	gear 7 AF sz 60			601 - 1000	300 - 500
<b>TGMK1340</b>	gear 7 AF sz 80 1RS			801 - 1200	400 - 600
<b>TGMK1400</b>	gear 7 AF sz 120 2RS 70			1201 - 1600	600 - 800
<b>TGMK1410</b>	gear 7 AF sz 160 2RS 70			1601 - 2000	800 - 1000
<b>TGMK1390</b>	gear 7 AF sz 200 3RS 70			2001 - 2400	1000 - 1200
<b>TGMK1390</b>	gear 7 AF sz 200 3RS 70	<b>TZKK1010</b>	<b>2</b> linkages KK/AF sz 1 1RS	2401 - 2800	1200 - 1400
<b>TGMK1390</b>	gear 7 AF sz 200 3RS 70	<b>TZKK1020</b>	<b>2</b> linkages KK/AF sz 2 1RS	2801 - 3000	1400 - 1500

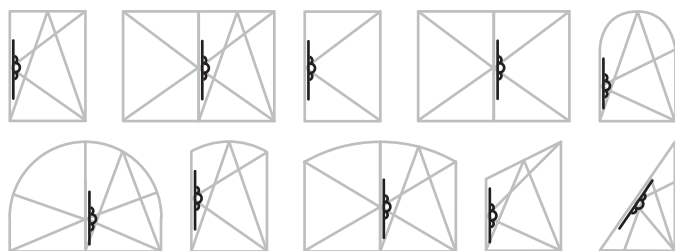
3.2



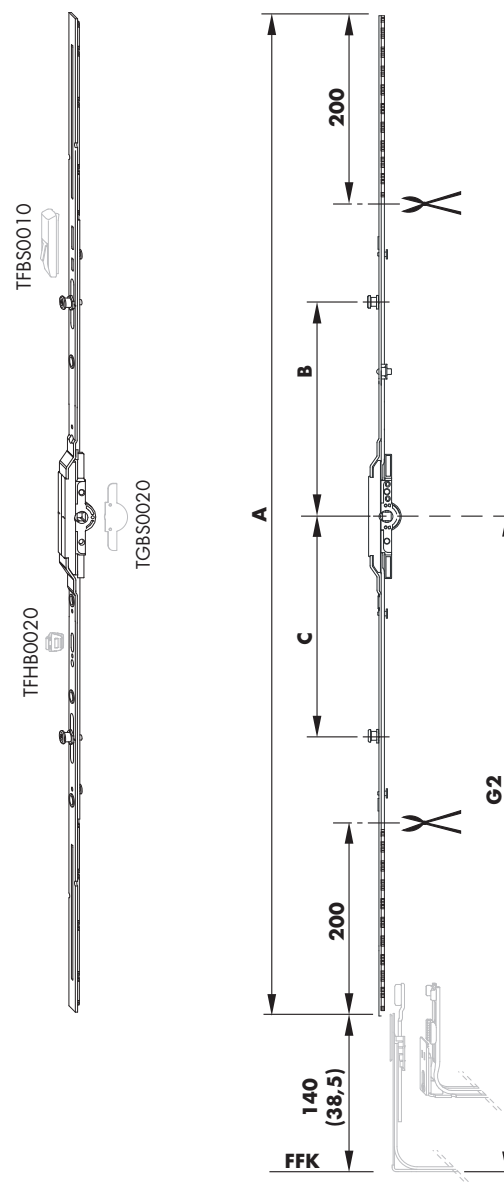


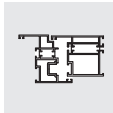
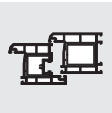
## Technical information

Part number	Description	FFH	Dimensions (mm)					
			G2	A	B	C		
TGMK1310-...	gear 7 AF sz 20	260 - 600	130 - 300	630	-	-	0	0
TGMK1320-...	gear 7 AF sz 60	601 - 1000	300 - 500	720	-	-	0	2
TGMK1330-...	gear 7 AF sz 70 1RS	701 - 1100	350 - 550	820	80	-	1	2
TGMK1340-...	gear 7 AF sz 80 1RS	801 - 1200	400 - 600	920	80	-	1	2
TGMK1350-...	gear 7 AF sz 120 1RS	1201 - 1600	600 - 800	1320	80	-	1	5
TGMK1410-...	gear 7 AF sz 160 2RS 70	1601 - 2000	800 - 1000	1720	280	408	2	7
TGMK1380-...	gear 7 AF sz 200 2RS	2001 - 3000	1000 - 1500	2120	392	408	2	9



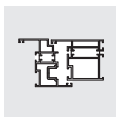
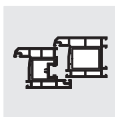
- Handle height centre/variable
- The mishandling device TFBS0010 cannot be used with gears TGMK1310/1320/1330





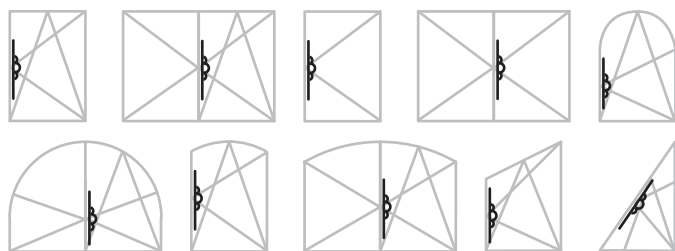
## Sales information

Description	Part number	Surface	Colour	Box quantity
gear 7 AF sz 20	TGMK1310-10001_	Titan Silver	without	1 pc
	TGMK1310-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 60	TGMK1320-10001_	Titan Silver	without	1 pc
	TGMK1320-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 70 1RS	TGMK1330-10001_	Titan Silver	without	1 pc
	TGMK1330-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 80 1RS	TGMK1340-10001_	Titan Silver	without	1 pc
	TGMK1340-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 120 1RS	TGMK1350-10001_	Titan Silver	without	1 pc
	TGMK1350-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 160 2RS 70	TGMK1410-10001_	Titan Silver	without	1 pc
	TGMK1410-10002_	Titan Silver	without	10 pcs
gear 7 AF sz 200 2RS	TGMK1380-10001_	Titan Silver	without	1 pc
	TGMK1380-10002_	Titan Silver	without	10 pcs

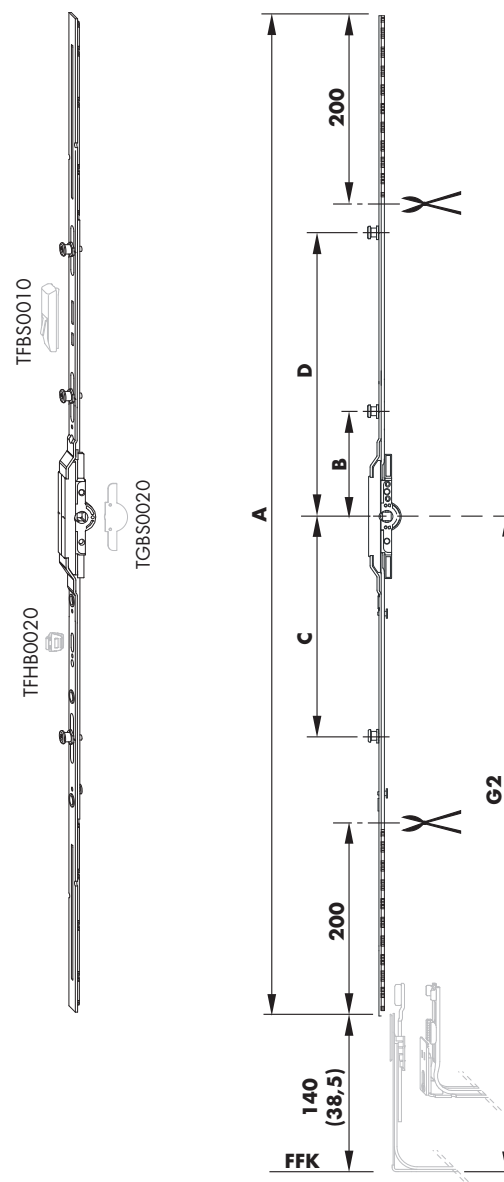


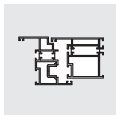
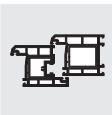
## Technical information

Part number	Description	FFH	Dimensions (mm)						
			G2	A	B	C	D		
TGMK1310-...	gear 7 AF sz 20	260 - 600	130 - 300	630	-	-	-	0	0
TGMK1320-...	gear 7 AF sz 60	601 - 1000	300 - 500	720	-	-	-	0	2
TGMK1330-...	gear 7 AF sz 70 1RS	701 - 1100	350 - 550	820	80	-	-	1	2
TGMK1340-...	gear 7 AF sz 80 1RS	801 - 1200	400 - 600	920	80	-	-	1	2
TGMK1400-...	gear 7 AF sz 120 2RS 70	1201 - 1600	600 - 800	1320	280	320	-	2	6
TGMK1410-...	gear 7 AF sz 160 2RS 70	1601 - 2000	800 - 1000	1720	280	408	-	2	7
TGMK1390-...	gear 7 AF sz 200 3RS 70	2001 - 2400	1000 - 1200	2120	80	498	502	3	9



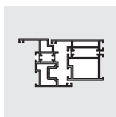
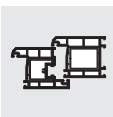
- Handle height centre/variable
- The mishandling device TFBS0010 cannot be used with gears TGMK1310/1320/1330
- Locking distance 700 mm





## Sales information

Description	Part number	Surface	Colour	Box quantity
gear 7 AF sz 20	TGMK1310-10001_	Titan Silver	without	1 pc
	TGMK1310-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 60	TGMK1320-10001_	Titan Silver	without	1 pc
	TGMK1320-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 70 1RS	TGMK1330-10001_	Titan Silver	without	1 pc
	TGMK1330-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 80 1RS	TGMK1340-10001_	Titan Silver	without	1 pc
	TGMK1340-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 120 2RS 70	TGMK1400-10001_	Titan Silver	without	1 pc
	TGMK1400-10004_	Titan Silver	without	25 pcs
gear 7 AF sz 160 2RS 70	TGMK1410-10001_	Titan Silver	without	1 pc
	TGMK1410-10002_	Titan Silver	without	10 pcs
gear 7 AF sz 200 3RS 70	TGMK1390-10001_	Titan Silver	without	1 pc
	TGMK1390-10002_	Titan Silver	without	10 pcs

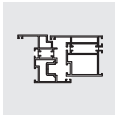
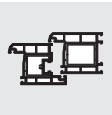


### 3.3 Secondary sash gear 16

Directory

**TITAN AF**

Description	Material	Page
Application matrix: sec. sash gear 16 AF, handle height constant		3.3 - 2
Application matrix: sec. sash gear 16 AF, handle height constant, locking distance 700 mm		3.3 - 4
sec. sash gear 16 GK	TGKS0170	3.3 - 6
sec. sash gear 16 GK	TGKS0010	3.3 - 7
sec. sash gear 16 AF GK	TGKS4030, TGKS4040	3.3 - 8
sec. sash gear 16 AF GK	TGKS4050, TGKS4060, TGKS4070, TGKS4080, TGKS4330, TGKS4270, TGKS4110	3.3 - 9
sec. sash gear 16 AF GK 700	TGKS4050, TGKS4060, TGKS4070, TGKS4290, TGKS4330, TGKS4270, TGKS4280, TGKS4320	3.3 - 11
sec. sash gear 16 AF GK	TGKS4120	3.3 - 13
sec. sash gear 16 AF GK	TGKS4130, TGKS4140, TGKS4150, TGKS4160	3.3 - 14
Application matrix: sec. sash gear 16 AF, handle height centre/variable		3.3 - 16
Application matrix: sec. sash gear 16 AF, handle height centre/variable, locking distance 700 mm		3.3 - 18
sec. sash gear 16 AF GM	TGMS4030, TGMS4040, TGMS4050, TGMS4120, TGMS4130, TGMS4080	3.3 - 20
sec. sash gear 16 AF GM 700	TGMS4030, TGMS4040, TGMS4120, TGMS4130, TGMS4100	3.3 - 22

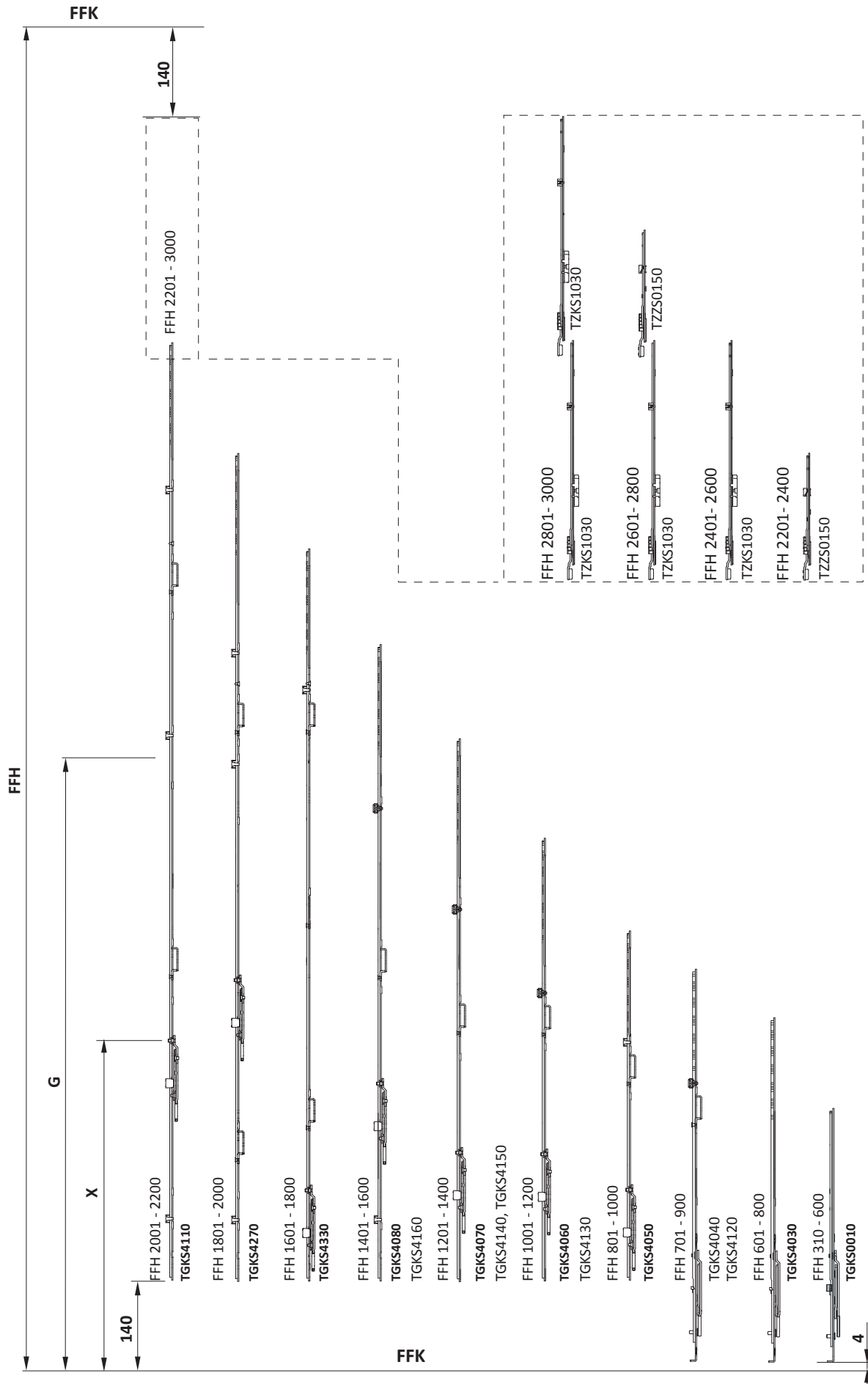


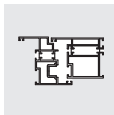
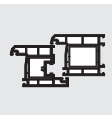
## Application matrix for sec. sash gear 16 AF

Handle height constant

**TITAN AF**

3.3





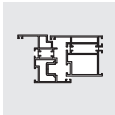
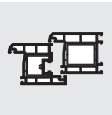
## Application matrix for sec. sash gear 16 AF

Handle height constant

**TITAN AF**

Material number	Description	Material number	Description	FFH (mm)	X (mm)	G (mm) In the main sash
<b>TGKS0010</b>	sec. sash gear 16 sz 30/G180			310 - 600	168	180
<b>TGKS4030</b>	sec. sash gear 16 AF sz 60/G300			601 - 800	168	300
<b>TGKS4040</b>	sec. sash gear 16 AF sz 70/G300 1SB			701 - 900	168	300
<b>TGKS4050</b>	sec. sash gear 16 AF sz 80/G400 1SB			801 - 1000	305	400
<b>TGKS4120</b>	sec. sash gear 16 AF sz 80/G300 1SB			801 - 1000	168	300
<b>TGKS4060</b>	sec. sash gear 16 AF sz 100/G500 1SB			1001 - 1200	430	500
<b>TGKS4130</b>	sec. sash gear 16 AF sz 100/G300 1SB			1001 - 1200	600	300
<b>TGKS4070</b>	sec. sash gear 16 AF sz 120/G600 1SB			1201 - 1400	430	600
<b>TGKS4140</b>	sec. sash gear 16 AF sz 120/G300 1SB			1201 - 1400	590	300
<b>TGKS4150</b>	sec. sash gear 16 AF sz 120/G400 1SB			1201 - 1400	300	400
<b>TGKS4080</b>	sec. sash gear 16 AF sz 140/G700 1SB			1401 - 1600	600	700
<b>TGKS4160</b>	sec. sash gear 16 AF sz 140/G500 1SB			1401 - 1600	300	500
<b>TGKS4330</b>	sec. sash gear 16 AF sz 160/G700 2SB 70			1601 - 1800	300	700
<b>TGKS4270</b>	sec. sash gear 16 AF sz 180/G1000 2SB 70			1801 - 2000	910	1000
<b>TGKS4110</b>	sec. sash gear 16 AF sz 200/G1000 2SB			2001 - 2200	680	1000
<b>TGKS4110</b>	sec. sash gear 16 AF sz 200/G1000 2SB	<b>TZZS0150</b>	linkage AF sz 1	2201 - 2400	680	1000
<b>TGKS4110</b>	sec. sash gear 16 AF sz 200/G1000 2SB	<b>TZKS1030</b>	linkage AF sz 2 1SB-RS	2401 - 2600	680	1000
<b>TGKS4110</b>	sec. sash gear 16 AF sz 200/G1000 2SB	<b>TZKS1030</b>	linkage AF sz 2 1SB-RS	2601 - 2800	680	1000
		<b>TZZS0150</b>	linkage AF sz 1			
<b>TGKS4110</b>	sec. sash gear 16 AF sz 200/G1000 2SB	<b>TZKS1030</b>	linkage AF sz 2 1SB-RS	2801 - 3000	680	1000
		<b>TZKS1030</b>	linkage AF sz 2 1SB-RS			

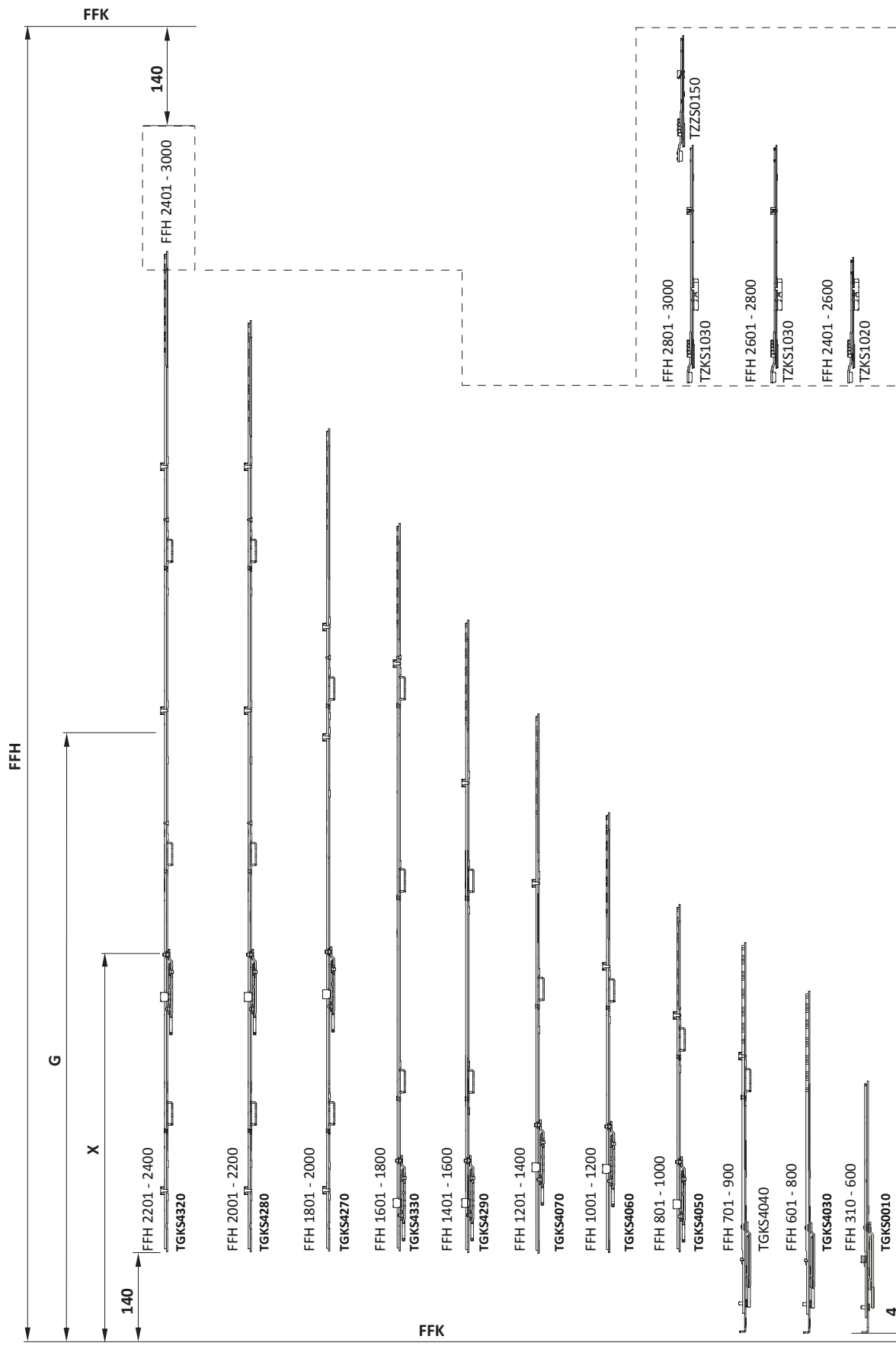
**3.3**



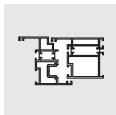
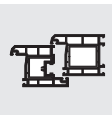
## Application matrix for sec. sash gear 16 AF

Handle height constant  
Locking distance 700 mm

**TITAN AF**





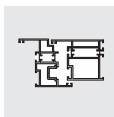
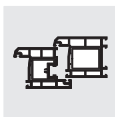


## Application matrix for sec. sash gear 16 AF



Handle height constant  
Locking distance 700 mm

**TITAN AF**

Material number	Description	Material number	Description	FFH (mm)	X (mm)	G (mm) In the main sash
<b>TGKS0010</b>	sec. sash gear 16 sz 30/G180			310 - 600	168	180
<b>TGKS4030</b>	sec. sash gear 16 AF sz 60/G300			601 - 800	168	300
<b>TGKS4040</b>	sec. sash gear 16 AF sz 70/G300 1SB			701 - 900	168	300
<b>TGKS4050</b>	sec. sash gear 16 AF sz 80/G400 1SB			801 - 1000	305	400
<b>TGKS4060</b>	sec. sash gear 16 AF sz 100/G500 1SB			1001 - 1200	430	500
<b>TGKS4070</b>	sec. sash gear 16 AF sz 120/G600 1SB			1201 - 1400	430	600
<b>TGKS4290</b>	sec. sash gear 16 AF sz 140/G700 2SB 70			1401 - 1600	300	700
<b>TGKS4330</b>	sec. sash gear 16 AF sz 160/G700 2SB 70			1601 - 1800	300	700
<b>TGKS4270</b>	sec. sash gear 16 AF sz 180/G1000 2SB 70			1801 - 2000	910	1000
<b>TGKS4280</b>	sec. sash gear 16 AF sz 200/G1000 3SB 70			2001 - 2200	910	1000
<b>TGKS4320</b>	sec. sash gear 16 AF sz 220/G1000 3SB 70			2201 - 2400	910	1000
<b>TGKS4320</b>	sec. sash gear 16 AF sz 220/G1000 3SB 70	<b>TZKS1020</b>	linkage AF sz 1 1SB-RS	2401 - 2600	910	1000
<b>TGKS4320</b>	sec. sash gear 16 AF sz 220/G1000 3SB 70	<b>TZKS1030</b>	linkage AF sz 2 1SB-RS	2601 - 2800	910	1000
<b>TGKS4320</b>	sec. sash gear 16 AF sz 220/G1000 3SB 70	<b>TZKS1030</b>	linkage AF sz 2 1SB-RS	2801 - 3000	910	1000
		<b>TZZS0150</b>	linkage AF sz 1			



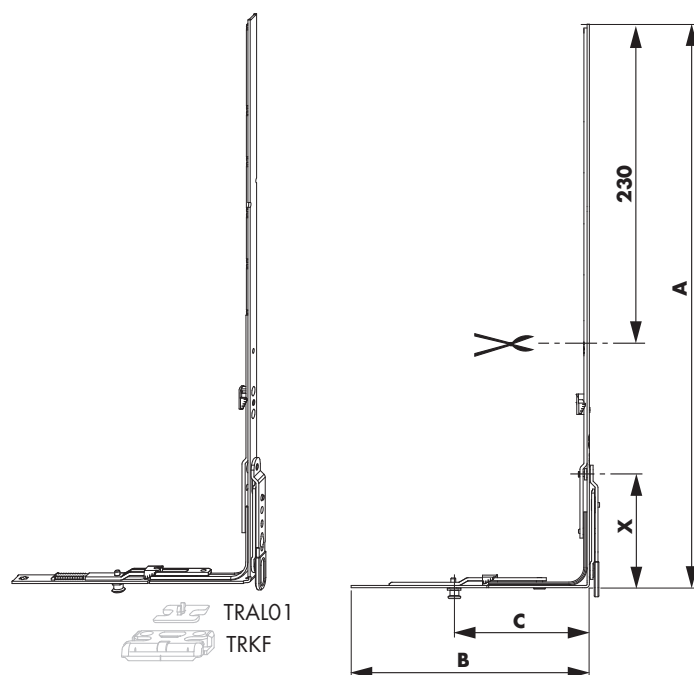
## Technical information

Part number	Description	FFH	Dimensions (mm)					
			A	B	C	X		
TGKS0170-...	sec.sash gear 16 sz 30+ 1RS	310 - 600	497	210	120	100	1	4



- Handle height constant
- Use in slave sashes with opposing fitting groove
- Coupling location to slide underneath
- Suitable for product range TITAN iP and TITAN AF

3.3



## Sales information

Description	Part number	Surface	Colour	Box quantity
sec.sash gear 16 sz 30+ 1RS	TGKS0170-10001_	Titan Silver	without	1 pc
	TGKS0170-10004_	Titan Silver	without	25 pcs

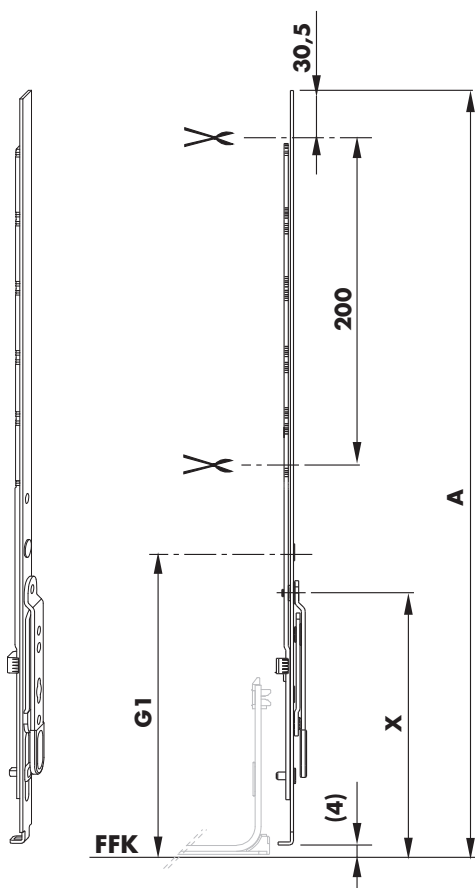


## Technical information

Part number	Description	Dimensions (mm)				
		G1	A	X		
TGKS0010-...	sec.sash gear 16 sz 30	180	495	168	0	2

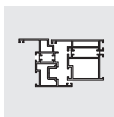
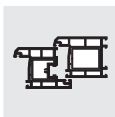


- Handle height constant
- Use in slave sashes with opposing fitting groove
- G1 in the main sash
- Suitable for product range TITAN iP and TITAN AF
- When used with TITAN AF the gear must be shortened by 30.5 mm
- TITAN AF FFH (mm) 310-600
- TITAN iP FFH (mm) 295-495





## Sales information

Description	Part number	Surface	Colour	Box quantity
sec.sash gear 16 sz 30	TGKS0010-10001_	Titan Silver	without	1 pc
	TGKS0010-10004_	Titan Silver	without	25 pcs

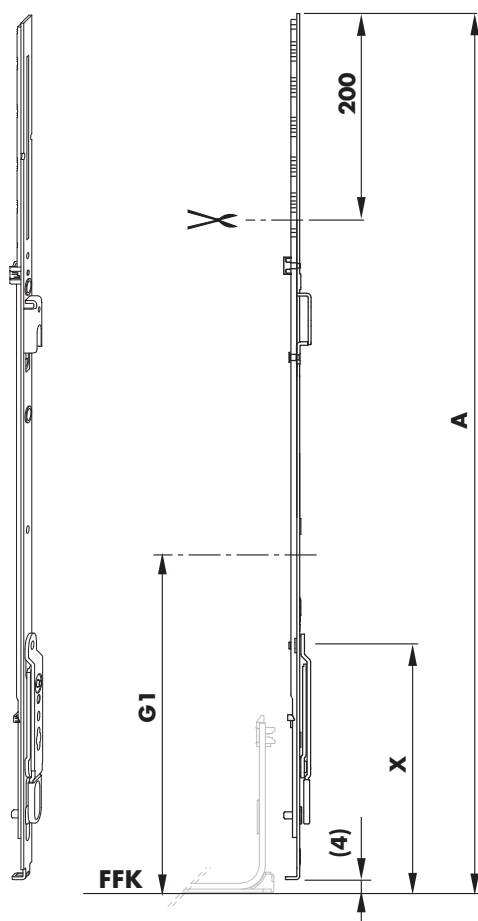


## Technical information

Part number	Description	Dimensions (mm)				
		G1	A	X		
TGKS4030-...	sec.sash gear 16 AF 60/G300	300	660	168	0	3
TGKS4040-...	sec.sash gear 16 AF70/G300 1SB	300	760	168	0	4

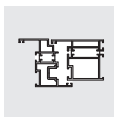
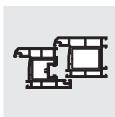


- Handle height constant
- Use in slave sashes with opposing fitting groove
- Striker plate with locking slider
- G1 in the main sash





## Sales information

Description	Part number	Surface	Colour	Box quantity
sec.sash gear 16 AF 60/G300	TGKS4030-10001_	Titan Silver	without	1 pc
	TGKS4030-10004_	Titan Silver	without	25 pcs
sec.sash gear 16 AF70/G300 1SB	TGKS4040-10001_	Titan Silver	without	1 pc
	TGKS4040-10004_	Titan Silver	without	25 pcs

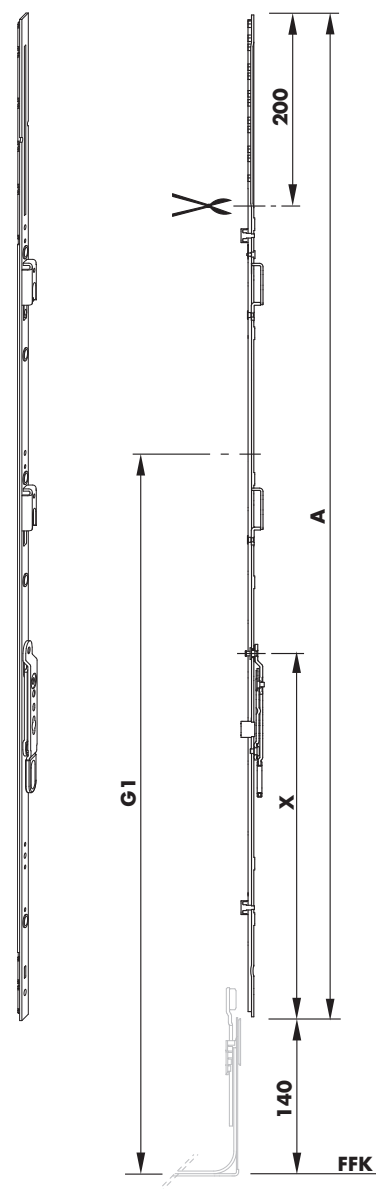


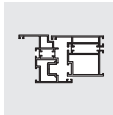
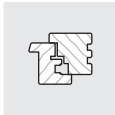
## Technical information

Part number	Description	FFH	Dimensions (mm)				
			G1	A	X		
TGKS4050-...	sec.sash gear 16 AF80/G400 1SB	801 - 1000	400	720	165	0	4
TGKS4060-...	sec.sash gear 16 AF sz 100 1SB	1001 - 1200	500	920	290	0	5
TGKS4070-...	sec.sash gear 16 AF120/G6001SB	1201 - 1400	600	1120	290	0	6
TGKS4080-...	sec.sash gear 16 AF140/G7001SB	1401 - 1600	700	1320	460	0	7
TGKS4330-...	sec.sash gear 16 AF160/G7002SB 70	1601 - 1800	700	1520	160	0	8
TGKS4270-...	sec.sash gear 16AF180/G10002SB 70	1801 - 2000	1000	1720	770	0	10
TGKS4110-...	sec.sash gear 16AF200/G10002SB	2001 - 3000	1000	1920	540	0	10



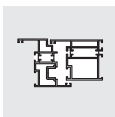
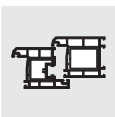
- Handle height constant
- Use in slave sashes with opposing fitting groove
- Striker plate with locking slider
- G1 in the main sash







## Sales information

Description	Part number	Surface	Colour	Box quantity
sec.sash gear 16 AF80/G400 1SB	TGKS4050-10001_	Titan Silver	without	1 pc
	TGKS4050-10004_	Titan Silver	without	25 pcs
sec.sash gear 16 AF sz 100 1SB	TGKS4060-10001_	Titan Silver	without	1 pc
	TGKS4060-10004_	Titan Silver	without	25 pcs
sec.sash gear 16 AF120/G6001SB	TGKS4070-10001_	Titan Silver	without	1 pc
	TGKS4070-10004_	Titan Silver	without	25 pcs
sec.sash gear 16 AF140/G7001SB	TGKS4080-10001_	Titan Silver	without	1 pc
	TGKS4080-10004_	Titan Silver	without	25 pcs
sec.sash gear 16 AF160/G7002SB 70	TGKS4330-10001_	Titan Silver	without	1 pc
	TGKS4330-10004_	Titan Silver	without	25 pcs
sec.sash gear 16AF180/G10002SB 70	TGKS4270-10001_	Titan Silver	without	1 pc
	TGKS4270-10002_	Titan Silver	without	10 pcs
sec.sash gear 16AF200/G10002SB	TGKS4110-10001_	Titan Silver	without	1 pc
	TGKS4110-10002_	Titan Silver	without	10 pcs

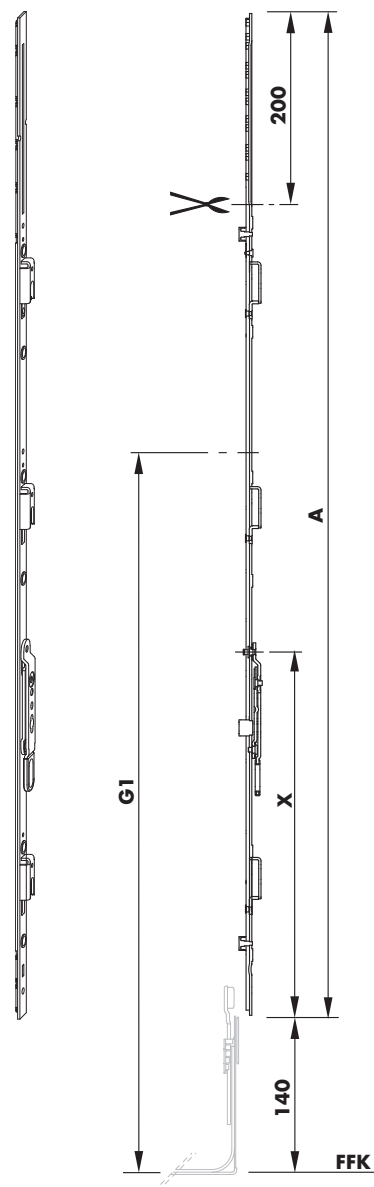


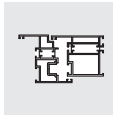
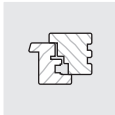
## Technical information

Part number	Description	FFH	Dimensions (mm)				
			G1	A	X		
TGKS4050-...	sec.sash gear 16 AF80/G400 1SB	801 - 1000	400	720	165	0	4
TGKS4060-...	sec.sash gear 16 AF sz 100 1SB	1001 - 1200	500	920	290	0	5
TGKS4070-...	sec.sash gear 16 AF120/G6001SB	1201 - 1400	600	1120	290	0	6
TGKS4290-...	sec.sash gear 16 AF140/G700 2S 70	1401 - 1600	700	1320	160	0	7
TGKS4330-...	sec.sash gear 16 AF160/G7002SB 70	1601 - 1800	700	1520	160	0	8
TGKS4270-...	sec.sash gear 16AF180/G10002SB 70	1801 - 2000	1000	1720	770	0	10
TGKS4280-...	sec.sash gear 16 AF200/G1000 3 70	2001 - 2200	1000	1920	770	0	11
TGKS4320-...	sec.sash gear 16 AF220/G1000 3 70	2201 - 3000	1000	2120	770	0	12



- Handle height constant
- Locking distance 700 mm
- Use in slave sashes with opposing fitting groove
- Striker plate with locking slider
- G1 in the main sash

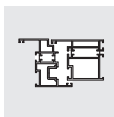
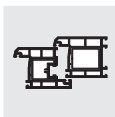




## Sales information

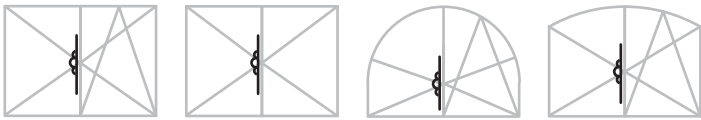
Description	Part number	Surface	Colour	Box quantity
sec.sash gear 16 AF80/G400 1SB	TGKS4050-10001_	Titan Silver	without	1 pc
	TGKS4050-10004_	Titan Silver	without	25 pcs
sec.sash gear 16 AF sz 100 1SB	TGKS4060-10001_	Titan Silver	without	1 pc
	TGKS4060-10004_	Titan Silver	without	25 pcs
sec.sash gear 16 AF120/G6001SB	TGKS4070-10001_	Titan Silver	without	1 pc
	TGKS4070-10004_	Titan Silver	without	25 pcs
sec.sash gear 16 AF140/G700 2S 70	TGKS4290-10001_	Titan Silver	without	1 pc
	TGKS4290-10004_	Titan Silver	without	25 pcs
sec.sash gear 16 AF160/G7002SB 70	TGKS4330-10001_	Titan Silver	without	1 pc
	TGKS4330-10004_	Titan Silver	without	25 pcs
sec.sash gear 16AF180/G10002SB 70	TGKS4270-10001_	Titan Silver	without	1 pc
	TGKS4270-10002_	Titan Silver	without	10 pcs
sec.sash gear 16 AF200/G1000 3 70	TGKS4280-10001_	Titan Silver	without	1 pc
	TGKS4280-10002_	Titan Silver	without	10 pcs
sec.sash gear 16 AF220/G1000 3 70	TGKS4320-10001_	Titan Silver	without	1 pc
	TGKS4320-10002_	Titan Silver	without	10 pcs



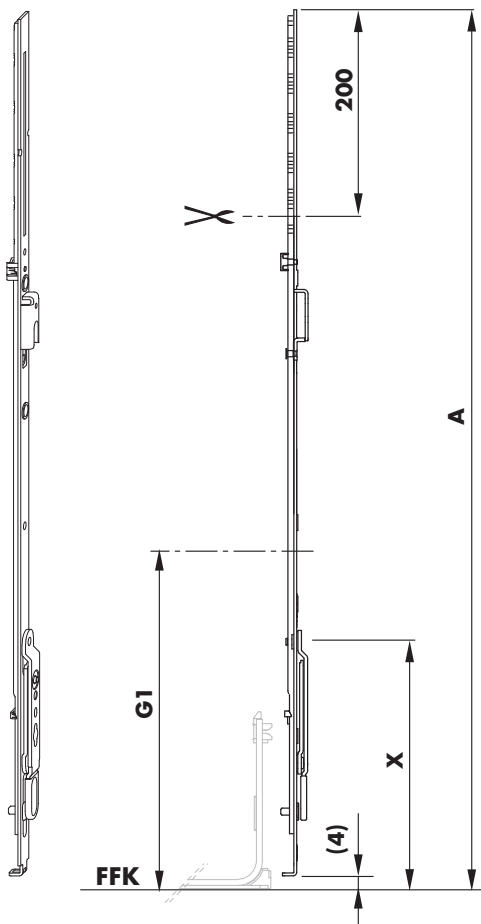


Technical information

Part number	Description	Dimensions (mm)				
		G1	A	X		
TGKS4120-...	sec.sash gear 16 AF80/G300 1SB	300	860	168	0	4

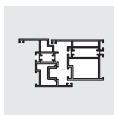
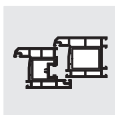


- Handle height constant
- Use in slave sashes with opposing fitting groove
- Striker plate with locking slider
- G1 in the main sash



Sales information

Description	Part number	Surface	Colour	Box quantity
sec.sash gear 16 AF80/G300 1SB	TGKS4120-10001_	Titan Silver	without	1 pc
	TGKS4120-10004_	Titan Silver	without	25 pcs

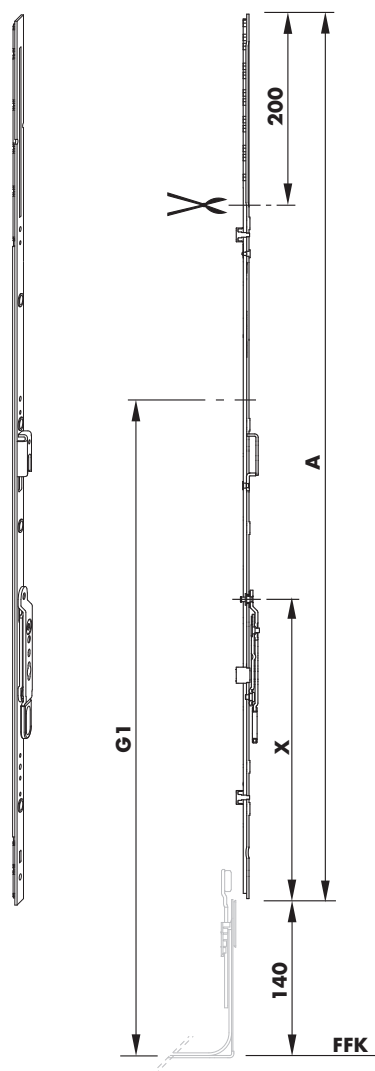


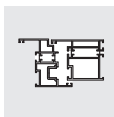
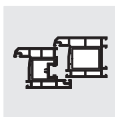
## Technical information

Part number	Description	FFH	Dimensions (mm)				
			G1	A	X		
TGKS4130-...	sec.sash gear 16 AF100/G3001SB	1001 - 1200	300	920	460	0	5
TGKS4140-...	sec.sash gear 16 AF120/G3001SB	1201 - 1400	300	1120	450	0	5
TGKS4150-...	sec.sash gear 16 AF120/G4001SB	1201 - 1400	400	1120	160	0	6
TGKS4160-...	sec.sash gear 16 AF140/G5001SB	1401 - 1600	500	1320	160	0	6



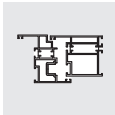
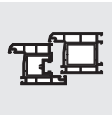
- Handle height constant
- Use in slave sashes with opposing fitting groove
- Striker plate with locking slider
- G1 in the main sash





## Sales information

Description	Part number	Surface	Colour	Box quantity
sec.sash gear 16 AF100/G3001SB	TGKS4130-10001_	Titan Silver	without	1 pc
	TGKS4130-10004_	Titan Silver	without	25 pcs
sec.sash gear 16 AF120/G3001SB	TGKS4140-10001_	Titan Silver	without	1 pc
	TGKS4140-10004_	Titan Silver	without	25 pcs
sec.sash gear 16 AF120/G4001SB	TGKS4150-10001_	Titan Silver	without	1 pc
	TGKS4150-10004_	Titan Silver	without	25 pcs
sec.sash gear 16 AF140/G5001SB	TGKS4160-10001_	Titan Silver	without	1 pc
	TGKS4160-10004_	Titan Silver	without	25 pcs

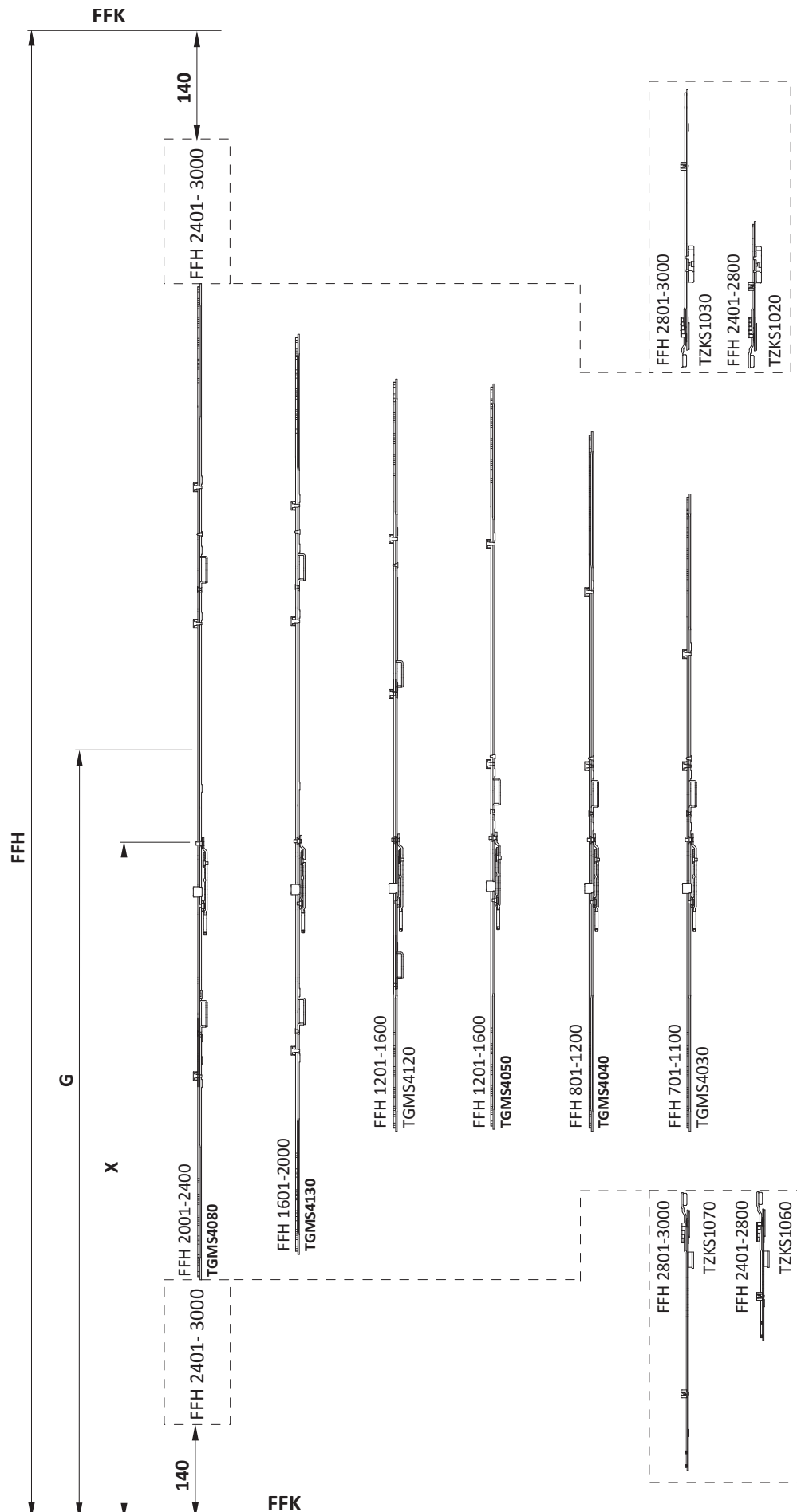


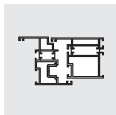
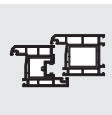
## Application matrix for sec. sash gear 16 AF

Handle height variable/centre

**TITAN AF**

3.3



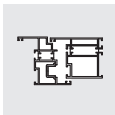
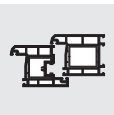


## Application matrix for sec. sash gear 16 AF

Handle height variable/centre

**TITAN AF**

Material number	Description	Material number	Description	FFH (mm)	x (mm)	G (mm) In the main sash
<b>TGMS4030</b>	sec. sash gear 16 AF sz 70 1SB			701 - 1100	300 - 500	350 - 550
<b>TGMS4040</b>	sec. sash gear 16 AF sz 80 1SB			801 - 1200	305 - 505	400 - 600
<b>TGMS4050</b>	sec. sash gear 16 AF sz 120 1SB			1201 - 1600	305 - 505	600 - 800
<b>TGMS4120</b>	sec. sash gear 16 AF sz 120 2SB 70			1201 - 1600	510 - 710	600 - 800
<b>TGMS4130</b>	sec. sash gear 16 AF sz 160 2SB 70			1601 - 2000	650 - 880	800 - 1000
<b>TGMS4080</b>	sec. sash gear 16 AF sz 200 2SB			2001 - 2400	850 - 1050	1000 - 1200
<b>TGMS4080</b>	sec. sash gear 16 AF sz 200 2SB	<b>TZKS1020</b>	linkage AF sz 1 1SB-RS	2401 - 2800	1050 - 1250	1200 - 1400
		<b>TZKS1060</b>	linkage AF sz 1 1SB-VSU			
<b>TGMK4080</b>	sec. sash gear 16 AF sz 200 2SB	<b>TZKS1030</b>	linkage AF sz 2 1SB-RS	2801 - 3000	1250 - 1450	1400 - 1500
		<b>TZKS1070</b>	linkage AF sz 2 1SB-VSU			

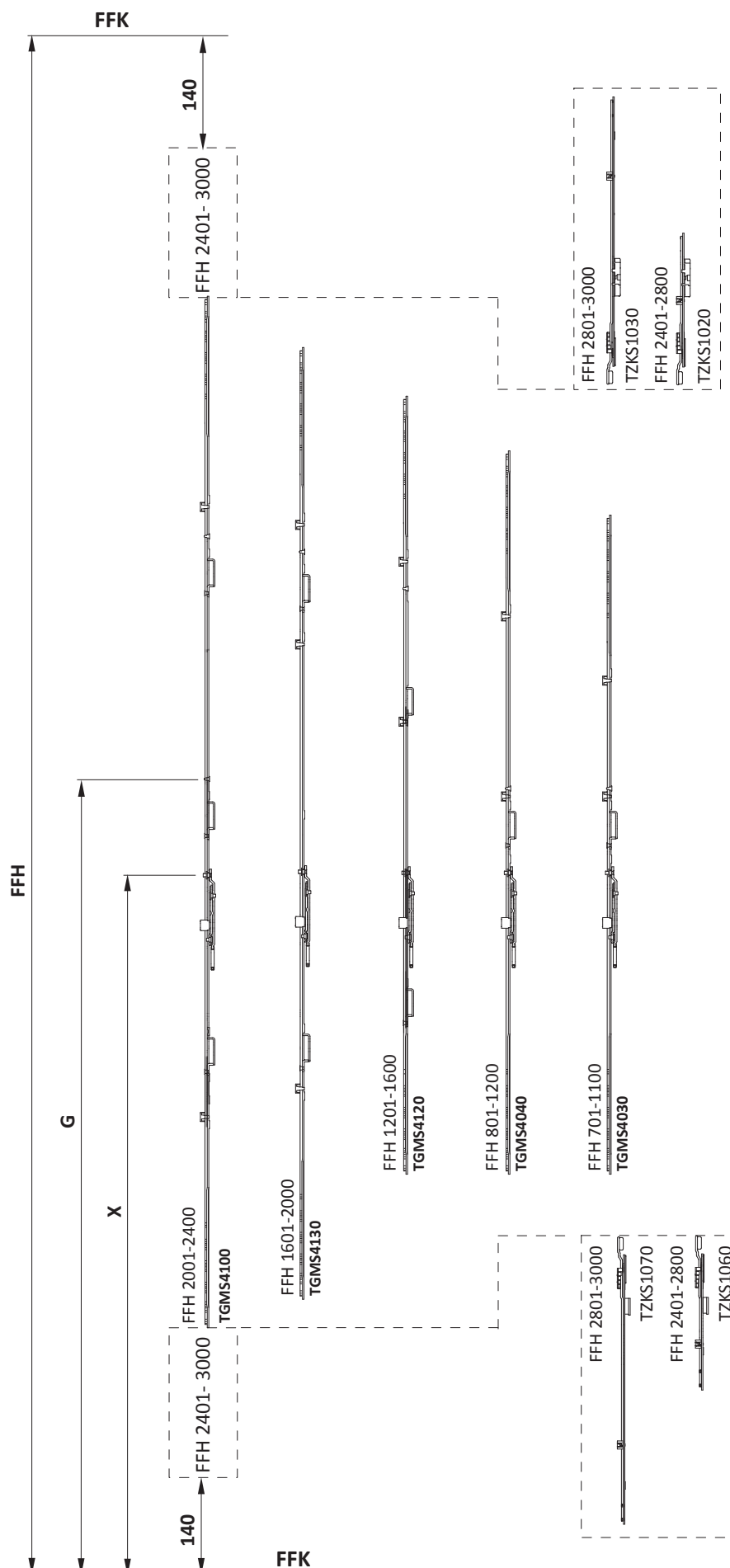


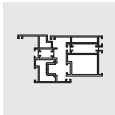
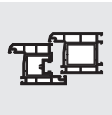
## Application matrix for sec. sash gear 16 AF

Handle height variable/centre  
Locking distance 700 mm

**TITAN AF**

3.3



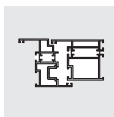
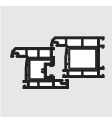


## Application matrix for sec. sash gear 16 AF



Handle height variable/centre  
Locking distance 700 mm

**TITAN AF**

Material number	Description	Material number	Description	FFH (mm)	x (mm)	G (mm) In the main sash
<b>TGMS4030</b>	sec. sash gear 16 AF sz 70 1SB			701 - 1100	300 - 500	350 - 550
<b>TGMS4040</b>	sec. sash gear 16 AF sz 80 1SB			801 - 1200	305 - 505	400 - 600
<b>TGMS4120</b>	sec. sash gear 16 AF sz 120 2SB 70			1201 - 1600	510 - 710	600 - 800
<b>TGMS4130</b>	sec. sash gear 16 AF sz 160 2SB 70			1601 - 2000	650 - 880	800 - 1000
<b>TGMS4100</b>	sec. sash gear 16 AF sz 200 3SB 70			2001 - 2400	850 - 1050	1000 - 1200
<b>TGMS4100</b>	sec. sash gear 16 AF sz 200 3SB 70	<b>TZKS1020</b>	linkage AF sz 1 1SB-RS	2401 - 2800	1050 - 1250	1200 - 1400
		<b>TZKS1060</b>	linkage AF sz 1 1SB-VSU			
<b>TGMK4100</b>	sec. sash gear 16 AF sz 200 3SB 70	<b>TZKS1030</b>	linkage AF sz 2 1SB-RS	2801 - 3000	1250 - 1450	1400 - 1500
		<b>TZKS1070</b>	linkage AF sz 2 1SB-VSU			

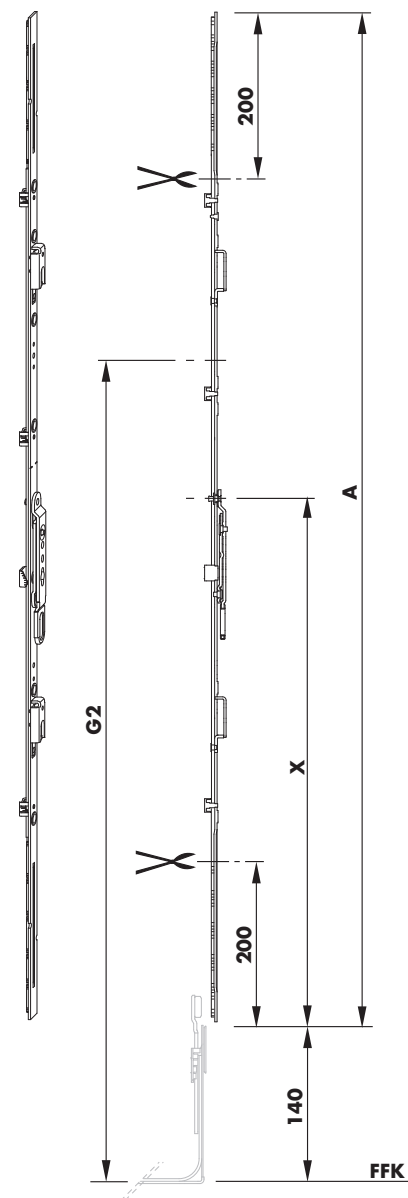


## Technical information

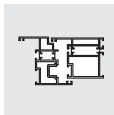
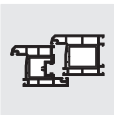
Part number	Description	FFH	Dimensions (mm)				
			G2	A	X		
TGMS4030-...	sec.sash gear 16 AF sz 70 1SB	701 - 1100	350 - 550	820	359	0	3
TGMS4040-...	sec.sash gear 16 AF sz 80 1SB	801 - 1200	400 - 600	920	365	0	3
TGMS4050-...	sec.sash gear 16 AF sz 120 1SB	1201 - 1600	600 - 800	1320	365	0	5
TGMS4120-...	sec.sash gear 16 AF 120 2SB 70	1201 - 1600	600 - 800	1320	570	0	7
TGMS4130-...	sec.sash gear 16 AF 160 2SB 70	1601 - 2000	800 - 1000	1720	710	0	8
TGMS4080-...	sec.sash gear 16 AF sz 200 2SB	2001 - 3000	1000 - 1500	2120	910	0	9



- Handle height centre/variable
- G2 in the main sash
- Use in slave sashes with opposing fitting groove
- Striker plate with locking slider
- Suitable for snapper and switchable snapper FFH 1600-3000 mm

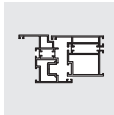








## Sales information

Description	Part number	Surface	Colour	Box quantity
sec.sash gear 16 AF sz 70 1SB	TGMS4030-10001_	Titan Silver	without	1 pc
	TGMS4030-10004_	Titan Silver	without	25 pcs
sec.sash gear 16 AF sz 80 1SB	TGMS4040-10001_	Titan Silver	without	1 pc
	TGMS4040-10004_	Titan Silver	without	25 pcs
sec.sash gear 16 AF sz 120 1SB	TGMS4050-10001_	Titan Silver	without	1 pc
	TGMS4050-10004_	Titan Silver	without	25 pcs
sec.sash gear 16 AF 120 2SB 70	TGMS4120-10001_	Titan Silver	without	1 pc
	TGMS4120-10004_	Titan Silver	without	25 pcs
sec.sash gear 16 AF 160 2SB 70	TGMS4130-10001_	Titan Silver	without	1 pc
	TGMS4130-10002_	Titan Silver	without	10 pcs
sec.sash gear 16 AF sz 200 2SB	TGMS4080-10001_	Titan Silver	without	1 pc
	TGMS4080-10002_	Titan Silver	without	10 pcs

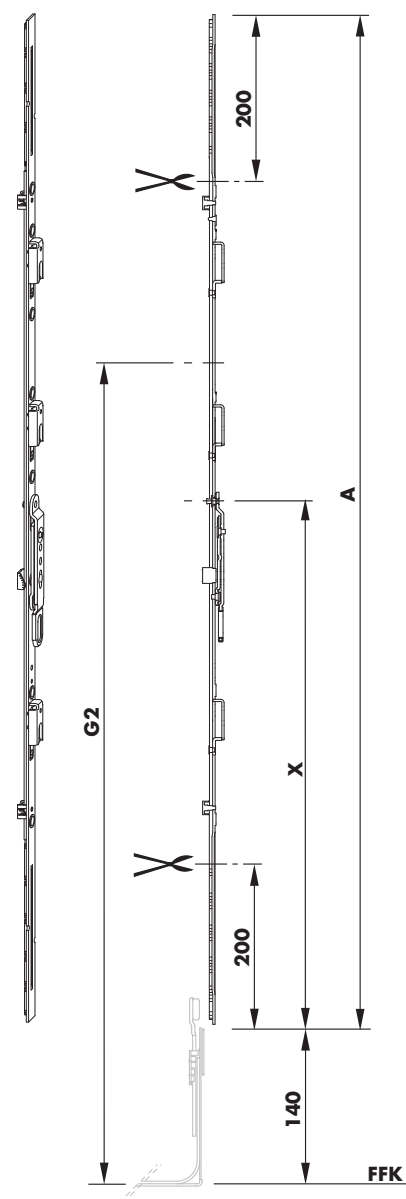


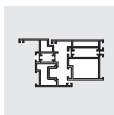
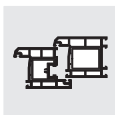
## Technical information

Part number	Description	FFH	Dimensions (mm)				
			G2	A	X		
TGMS4030-...	sec.sash gear 16 AF sz 70 1SB	701 - 1100	350 - 550	820	359	0	3
TGMS4040-...	sec.sash gear 16 AF sz 80 1SB	801 - 1200	400 - 600	920	365	0	3
TGMS4120-...	sec.sash gear 16 AF 120 2SB 70	1201 - 1600	600 - 800	1320	570	0	7
TGMS4130-...	sec.sash gear 16 AF 160 2SB 70	1601 - 2000	800 - 1000	1720	710	0	8
TGMS4100-...	sec.sash gear 16 AF 200 3SB 70	2001 - 3000	1000 - 1500	2120	910	0	11



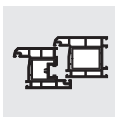
- Handle height centre/variable
- Locking distance 700 mm
- G2 in the main sash
- Use in slave sashes with opposing fitting groove
- Striker plate with locking slider
- Suitable for snapper and switchable snapper FFH 1600-3000 mm





## Sales information

Description	Part number	Surface	Colour	Box quantity
sec.sash gear 16 AF sz 70 1SB	TGMS4030-10001_	Titan Silver	without	1 pc
	TGMS4030-10004_	Titan Silver	without	25 pcs
sec.sash gear 16 AF sz 80 1SB	TGMS4040-10001_	Titan Silver	without	1 pc
	TGMS4040-10004_	Titan Silver	without	25 pcs
sec.sash gear 16 AF 120 2SB 70	TGMS4120-10001_	Titan Silver	without	1 pc
	TGMS4120-10004_	Titan Silver	without	25 pcs
sec.sash gear 16 AF 160 2SB 70	TGMS4130-10001_	Titan Silver	without	1 pc
	TGMS4130-10002_	Titan Silver	without	10 pcs
sec.sash gear 16 AF 200 3SB 70	TGMS4100-10001_	Titan Silver	without	1 pc
	TGMS4100-10002_	Titan Silver	without	10 pcs



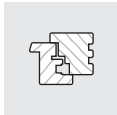
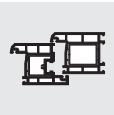
### 3.4 Secondary sash gear 8

Directory

**TITAN AF**

Description	Material	Page
Application matrix: sec. sash gear 8 AF, handle height constant		3.4 - 2
Application matrix: sec. sash gear 8 AF, handle height constant, locking distance 700 mm		3.4 - 4
sec. sash gear 8 GK	TGKS1030, TGKS1040, TGKS1050, TGKS1060, TGKS1120, TGKS1070, TGKS1130, TGKS1160, TGKS1150, TGKS1170, TGKS1110	3.4 - 6
sec. sash gear 8 GK 700	TGKS1030, TGKS1040, TGKS1050, TGKS1060, TGKS1070, TGKS1160, TGKS1150, TGKS1170, TGKS1180	3.4 - 8
Application matrix: sec. sash gear 8 AF, handle height centre/variable		3.4 - 10
Application matrix: sec. sash gear 8 AF, handle height centre/variable, locking distance 700 mm		3.4 - 12
sec. sash gear 8 GM	TGMS1000, TGMS1010, TGMS1050, TGMS1060, TGMS1040	3.4 - 14
sec. sash gear 8 GM 700	TGMS1000, TGMS1010, TGMS1050, TGMS1060, TGMS1070	3.4 - 16

**3.4**

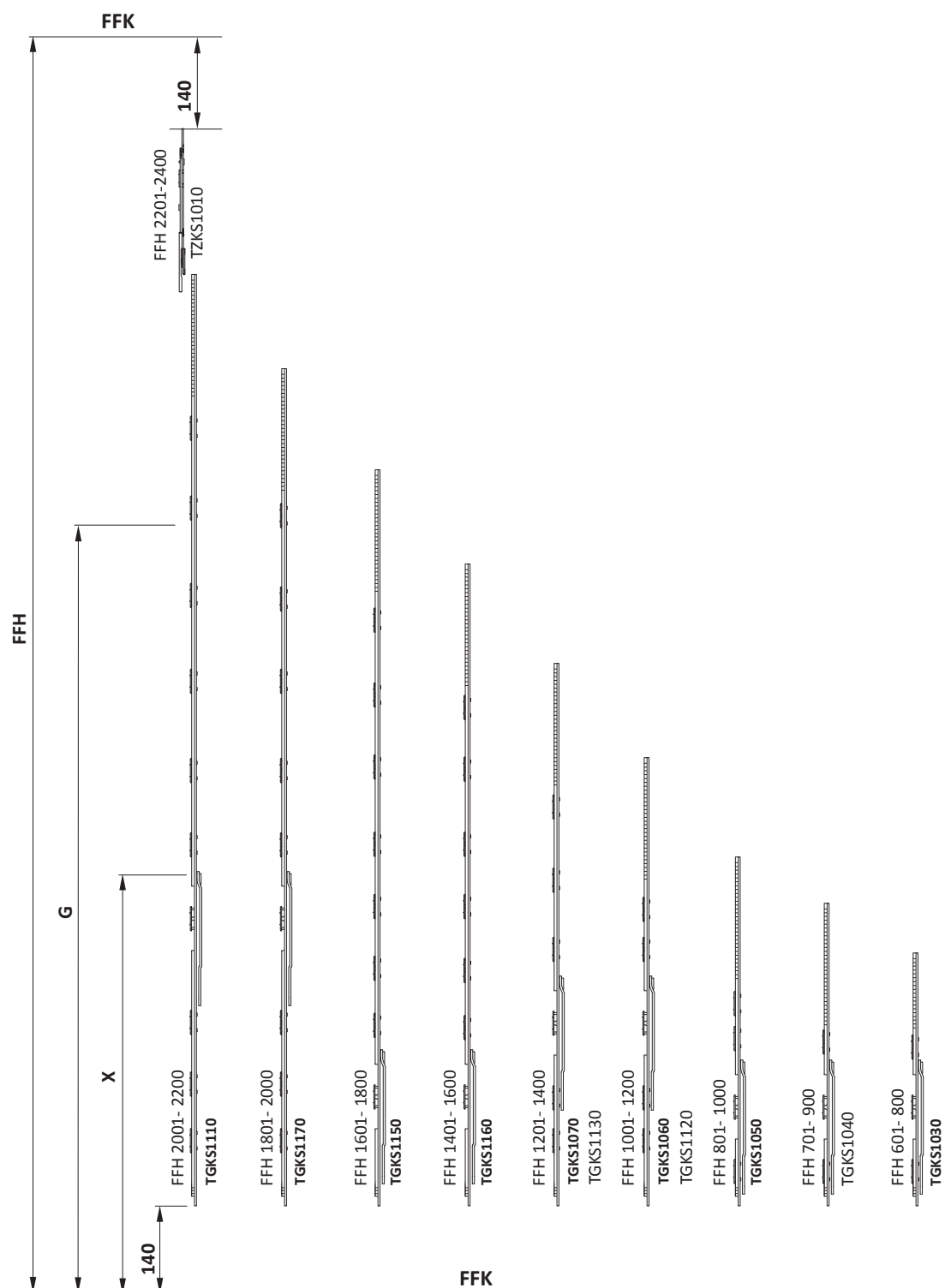


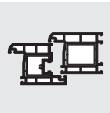
## Application matrix for sec. sash gear 8 AF

Handle height constant

**TITAN AF**

3.4





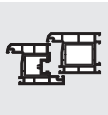
## Application matrix for sec. sash gear 8 AF

Handle height constant

**TITAN AF**

Material number	Description	Material number	Description	FFH (mm)	X (mm)	G (mm) In the main sash
<b>TGKS1030</b>	sec. sash gear 8 sz 60/G300			601 - 800	285,5	300
TGKS1040	sec. sash gear 8 sz 70/G300			701 - 900	285,5	300
<b>TGKS1050</b>	sec. sash gear 8 sz 80/G400			801 - 1000	285,5	400
<b>TGKS1060</b>	sec. sash gear 8 sz 100/G500			1001 - 1200	430	500
TGKS1120	sec. sash gear 8 sz 100/G400			1001 - 1200	600	400
<b>TGKS1070</b>	sec. sash gear 8 sz 120/G600			1201 - 1400	430	600
TGKS1130	sec. sash gear 8 sz 120/G400			1201 - 1400	285,5	400
<b>TGKS1160</b>	sec. sash gear 8 sz 140/G700 2SB 70			1401 - 1600	285,5	700
<b>TGKS1150</b>	sec. sash gear 8 sz 160/G700 2SB 70			1601 - 1800	285,5	700
<b>TGKS1170</b>	sec. sash gear 8 sz 180/G1000 2SB 70			1801 - 2000	910	1000
<b>TGKS1110</b>	sec. sash gear 8 sz 200/G1000 2SB			2001 - 2200	700	1000
<b>TGKS1110</b>	sec. sash gear 8 sz 200/G1000 2SB	<b>TZKS1010</b>	linkage KS Stulp 8 sz 1	2201 - 2400	700	1000

3.4

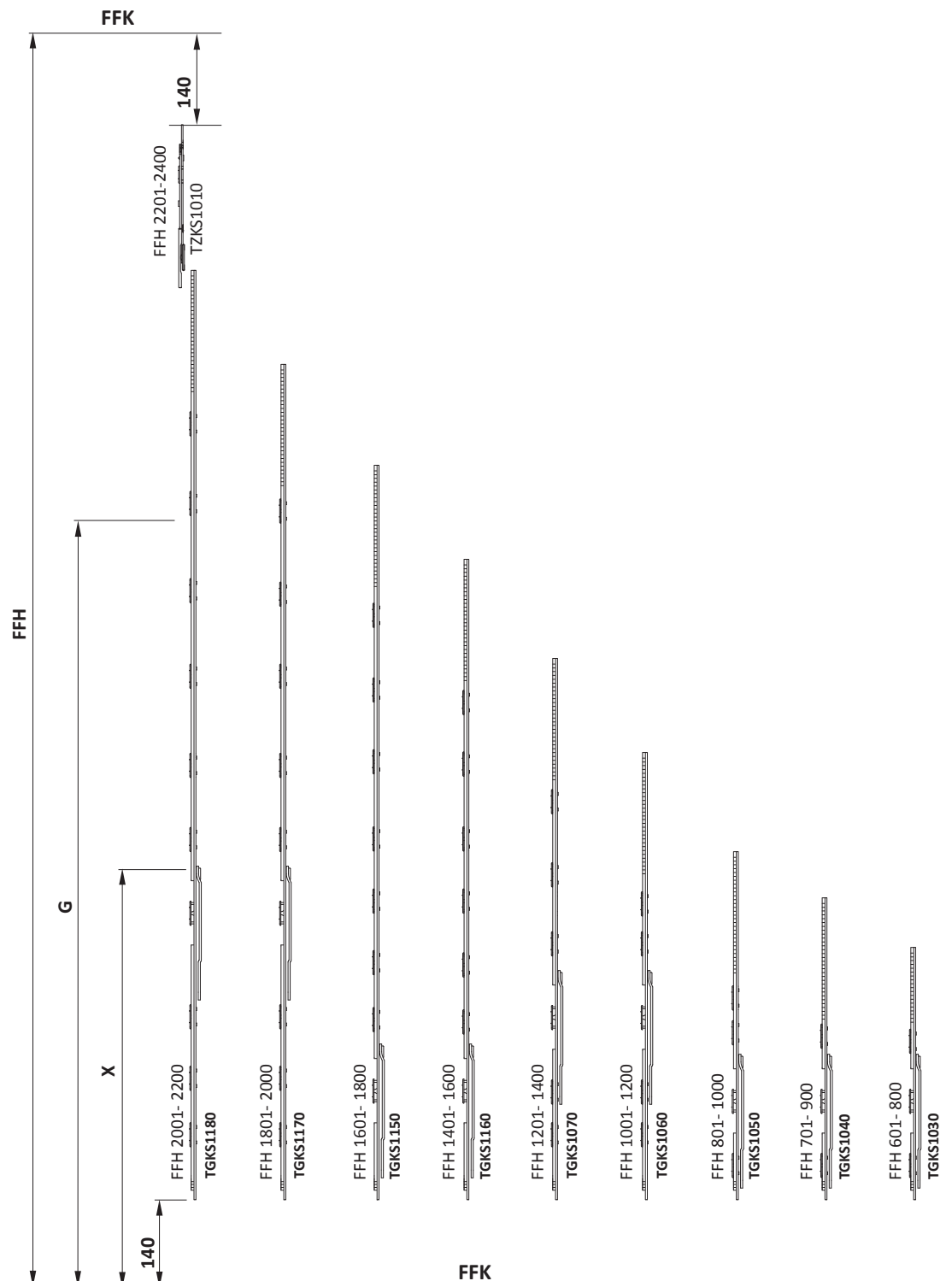


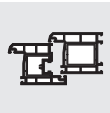
## Application matrix for sec. sash gear 8 AF

Handle height constant  
Locking distance 700 mm

**TITAN AF**

3.4





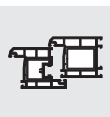
## Application matrix for sec. sash gear 8 AF

Handle height constant  
Locking distance 700 mm


**TITAN AF**

Material number	Description	Material number	Description	FFH (mm)	X (mm)	G (mm) In the main sash
<b>TGKS1030</b>	sec. sash gear 8 sz 60/G300			601 - 800	285,5	300
<b>TGKS1040</b>	sec. sash gear 8 sz 70/G300			701 - 900	285,5	300
<b>TGKS1050</b>	sec. sash gear 8 sz 80/G400			801 - 1000	285,5	400
<b>TGKS1060</b>	sec. sash gear 8 sz 100/G500			1001 - 1200	430	500
<b>TGKS1070</b>	sec. sash gear 8 sz 120/G600			1201 - 1400	430	600
<b>TGKS1160</b>	sec. sash gear 8 sz 140/G700 2SB 70			1401 - 1600	285,5	700
<b>TGKS1150</b>	sec. sash gear 8 sz 160/G700 2SB 70			1601 - 1800	285,5	700
<b>TGKS1170</b>	sec. sash gear 8 sz 180/G1000 2SB 70			1801 - 2000	910	1000
<b>TGKS1180</b>	sec. sash gear 8 sz 200/G1000 3SB 70			2001 - 2200	910	1000
<b>TGKS1180</b>	sec. sash gear 8 sz 200/G1000 3SB 70	<b>TZKS1010</b>	linkage KS Stulp 8 sz 1	2201 - 2400	910	1000



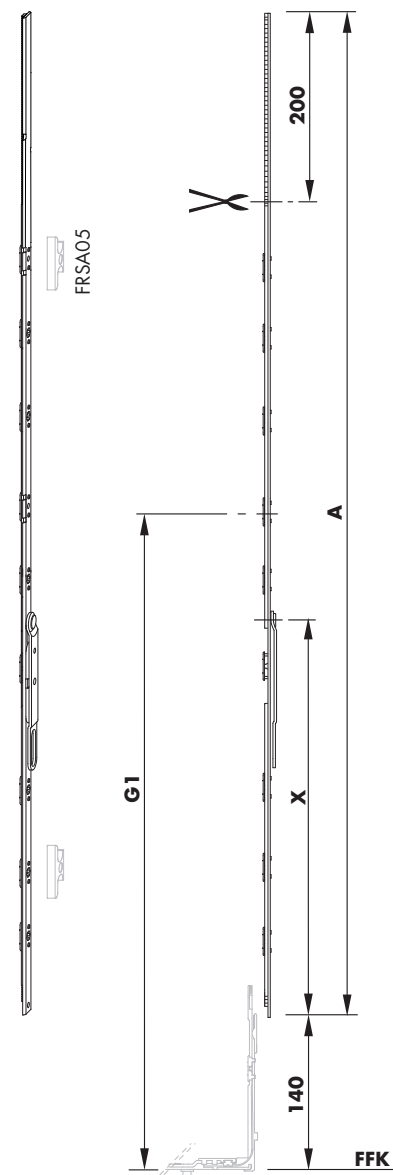


## Technical information

Part number	Description	FFH	Dimensions (mm)			
			G1	A	X	
TGKS1030-...	sec.sash gear 8 sz 60/G300	601 - 800	300	520	145,50	3
TGKS1040-...	sec.sash gear 8 sz 70/G300	701 - 900	300	620	145,50	3
TGKS1050-...	sec.sash gear 8 sz 80/G400	801 - 1000	400	720	145,50	3
TGKS1060-...	sec.sash gear 8 sz 100/G500	1001 - 1200	500	920	290	6
TGKS1120-...	sec.sash gear 8 sz 100/G400	1001 - 1200	400	920	460	6
TGKS1070-...	sec.sash gear 8 sz 120/G600	1201 - 1400	600	1120	290	7
TGKS1130-...	sec.sash gear 8 sz 120/G400	1201 - 1400	400	1120	145,50	5
TGKS1160-...	sec.sash gear 8 sz 140/G700 70	1401 - 1600	700	1320	145,50	8
TGKS1150-...	sec.sash gear 8 160/G700 2SB70 70	1601 - 1800	700	1520	145,50	7
TGKS1170-...	sec.sash gear 8 sz 180/G1000 2 70	1801 - 2000	1000	1720	770	9
TGKS1110-...	sec.sash gear 8 sz 200/G1000	2001 - 2400	1000	1920	560	11



- Cannot be combined with SIEGENIA gear backset 7 mm!
- Handle height constant
- Can be used in the secondary sash with groove ../8x4
- G1 in the main sash
- FRSA05 profile related, refer to PDB
- Reverse-action






## Sales information

Description	Part number	Surface	Colour	Box quantity
sec.sash gear 8 sz 60/G300	TGKS1030-10001_	Titan Silver	without	1 pc
	TGKS1030-10004_	Titan Silver	without	25 pcs
sec.sash gear 8 sz 70/G300	TGKS1040-10001_	Titan Silver	without	1 pc
	TGKS1040-10004_	Titan Silver	without	25 pcs
sec.sash gear 8 sz 80/G400	TGKS1050-10001_	Titan Silver	without	1 pc
	TGKS1050-10004_	Titan Silver	without	25 pcs
sec.sash gear 8 sz 100/G500	TGKS1060-10001_	Titan Silver	without	1 pc
	TGKS1060-10004_	Titan Silver	without	25 pcs
sec.sash gear 8 sz 100/G400	TGKS1120-10001_	Titan Silver	without	1 pc
	TGKS1120-10004_	Titan Silver	without	25 pcs
sec.sash gear 8 sz 120/G600	TGKS1070-10001_	Titan Silver	without	1 pc
	TGKS1070-10004_	Titan Silver	without	25 pcs
sec.sash gear 8 sz 120/G400	TGKS1130-10001_	Titan Silver	without	1 pc
	TGKS1130-10004_	Titan Silver	without	25 pcs
sec.sash gear 8 sz 140/G700 70	TGKS1160-10001_	Titan Silver	without	1 pc
	TGKS1160-10004_	Titan Silver	without	25 pcs
sec.sash gear 8 160/G700 2SB70 70	TGKS1150-10001_	Titan Silver	without	1 pc
	TGKS1150-10002_	Titan Silver	without	10 pcs
sec.sash gear 8 sz 180/G1000 2 70	TGKS1170-10001_	Titan Silver	without	1 pc
	TGKS1170-10002_	Titan Silver	without	10 pcs
sec.sash gear 8 sz 200/G1000	TGKS1110-10001_	Titan Silver	without	1 pc
	TGKS1110-10002_	Titan Silver	without	10 pcs

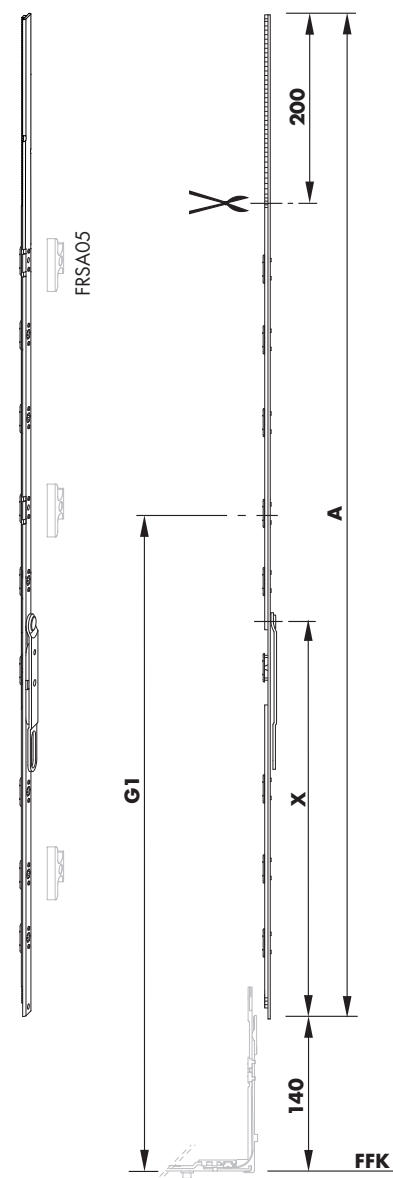


## Technical information

Part number	Description	FFH	Dimensions (mm)			
			G1	A	X	
TGKS1030-...	sec.sash gear 8 sz 60/G300	601 - 800	300	520	145,50	3
TGKS1040-...	sec.sash gear 8 sz 70/G300	701 - 900	300	620	145,50	3
TGKS1050-...	sec.sash gear 8 sz 80/G400	801 - 1000	400	720	145,50	3
TGKS1060-...	sec.sash gear 8 sz 100/G500	1001 - 1200	500	920	290	6
TGKS1070-...	sec.sash gear 8 sz 120/G600	1201 - 1400	600	1120	290	7
TGKS1160-...	sec.sash gear 8 sz 140/G700 70	1401 - 1600	700	1320	145,50	8
TGKS1150-...	sec.sash gear 8 160/G700 2SB70 70	1601 - 1800	700	1520	145,50	7
TGKS1170-...	sec.sash gear 8 sz 180/G1000 2 70	1801 - 2000	1000	1720	770	9
TGKS1180-...	sec.sash gear 8 sz 200/G1000 3 70	2001 - 2200	1000	1920	770	10



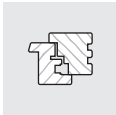
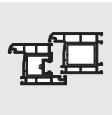
- Cannot be combined with SIEGENIA gear backset 7 mm!
- Handle height constant
- Can be used in the secondary sash with groove ../8x4
- G1 in the main sash
- FRSA05 profile related, refer to PDB
- Locking distance 700 mm
- Reverse-action





## Sales information

Description	Part number	Surface	Colour	Box quantity
sec.sash gear 8 sz 60/G300	TGKS1030-10001_	Titan Silver	without	1 pc
	TGKS1030-10004_	Titan Silver	without	25 pcs
sec.sash gear 8 sz 70/G300	TGKS1040-10001_	Titan Silver	without	1 pc
	TGKS1040-10004_	Titan Silver	without	25 pcs
sec.sash gear 8 sz 80/G400	TGKS1050-10001_	Titan Silver	without	1 pc
	TGKS1050-10004_	Titan Silver	without	25 pcs
sec.sash gear 8 sz 100/G500	TGKS1060-10001_	Titan Silver	without	1 pc
	TGKS1060-10004_	Titan Silver	without	25 pcs
sec.sash gear 8 sz 120/G600	TGKS1070-10001_	Titan Silver	without	1 pc
	TGKS1070-10004_	Titan Silver	without	25 pcs
sec.sash gear 8 sz 140/G700 70	TGKS1160-10001_	Titan Silver	without	1 pc
	TGKS1160-10004_	Titan Silver	without	25 pcs
sec.sash gear 8 160/G700 2SB70 70	TGKS1150-10001_	Titan Silver	without	1 pc
	TGKS1150-10002_	Titan Silver	without	10 pcs
sec.sash gear 8 sz 180/G1000 2 70	TGKS1170-10001_	Titan Silver	without	1 pc
	TGKS1170-10002_	Titan Silver	without	10 pcs
sec.sash gear 8 sz 200/G1000 3 70	TGKS1180-10001_	Titan Silver	without	1 pc
	TGKS1180-10002_	Titan Silver	without	10 pcs

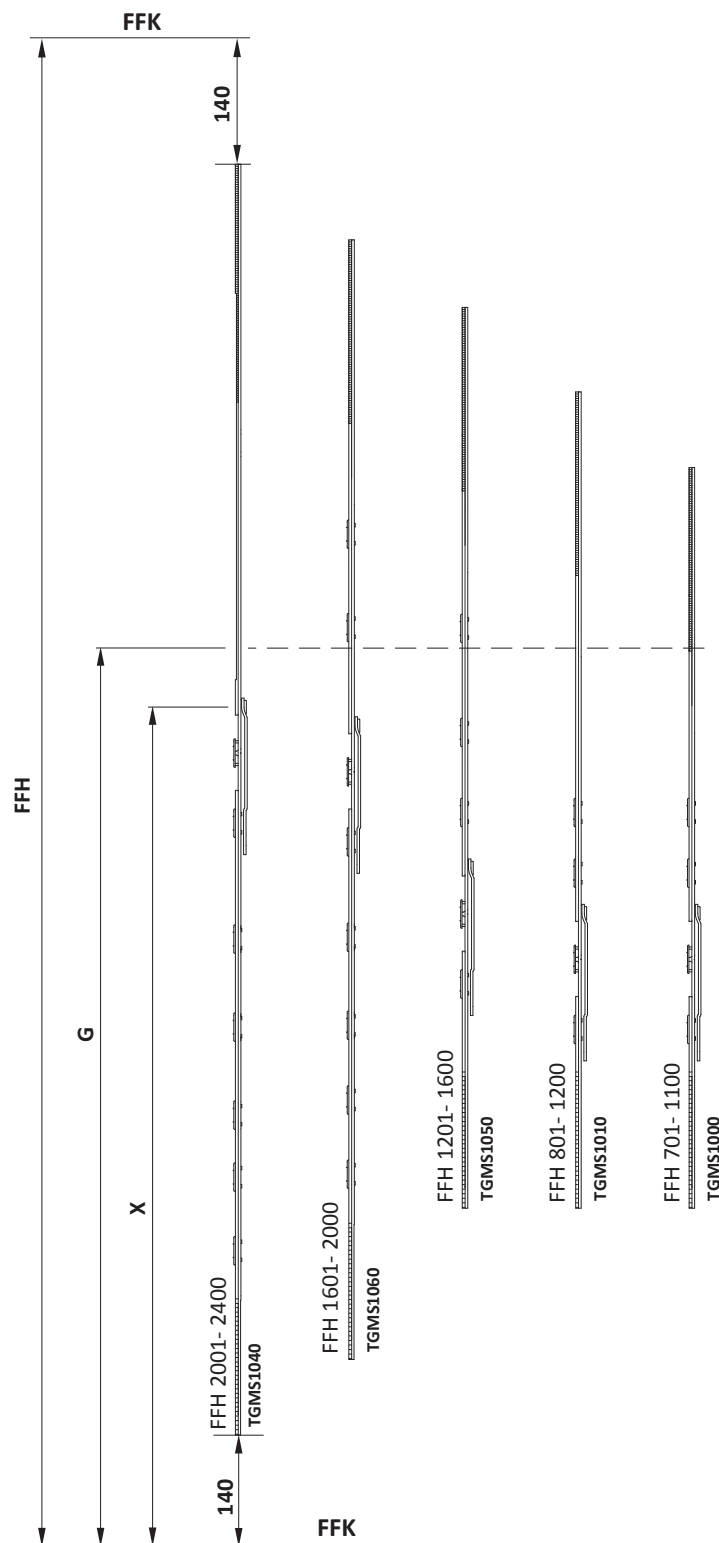


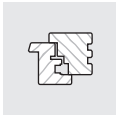
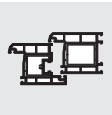
## Application matrix for sec. sash gear 8 AF

Handle height variable/centre

**TITAN AF**

3.4



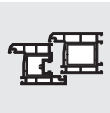


## Application matrix for sec. sash gear 8 AF

Handle height variable/centre

**TITAN AF**

Material number	Description	FFH (mm)	x (mm)	G (mm) In the main sash
<b>TGMS1000</b>	sec. sash gear 8 sz 70	701 - 1100	305 - 505	350 - 550
<b>TGMS1010</b>	sec. sash gear 8 sz 80	801 - 1200	355 - 505	400 - 600
<b>TGMS1050</b>	sec. sash gear 8 sz 120 2SB 70	1201 - 1600	515 - 715	600 - 800
<b>TGMS1060</b>	sec. sash gear 8 sz 160 2SB 70	1601 - 2000	650 - 850	800 - 1000
<b>TGMS1040</b>	sec. sash gear 8 sz 200	2001 - 2400	850 - 1050	1000 - 1200

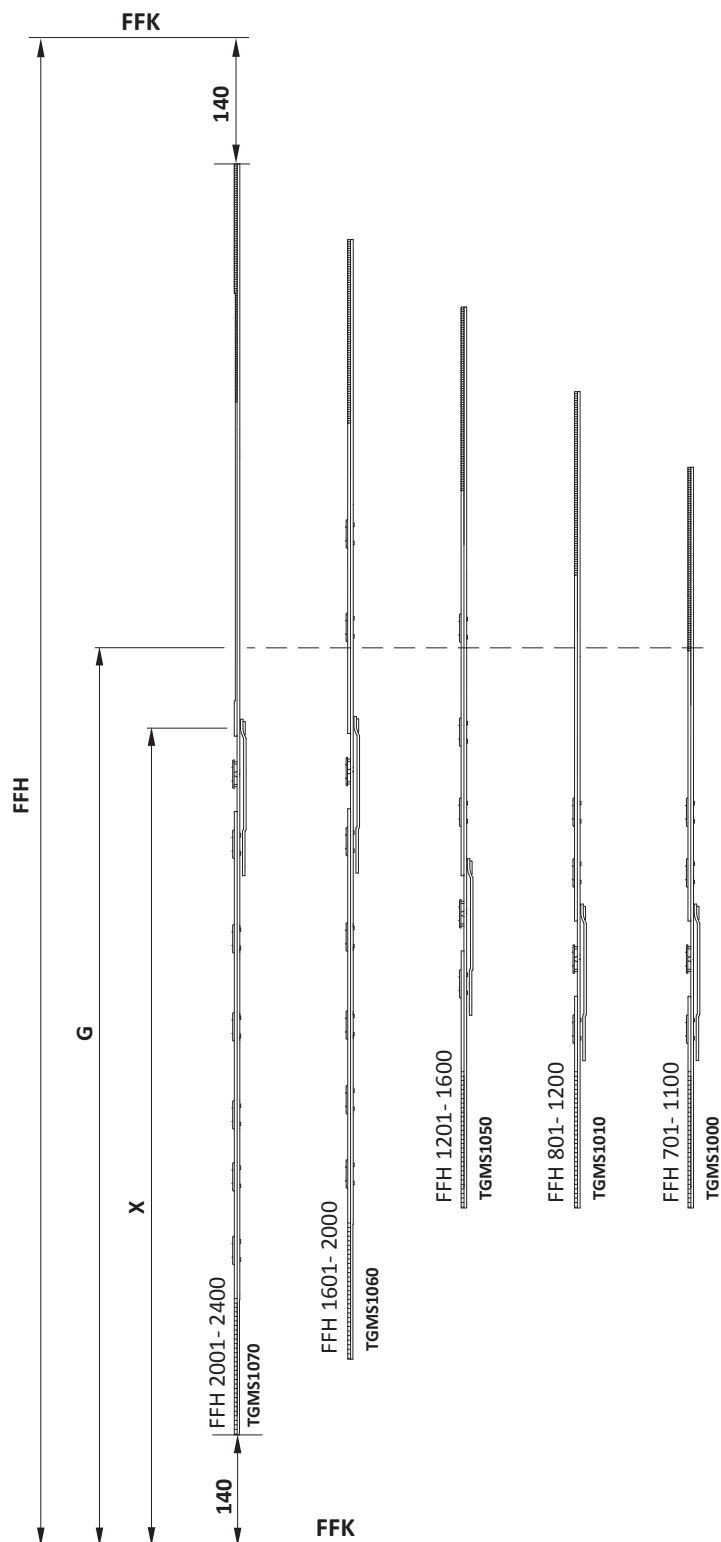


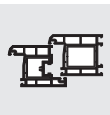
## Application matrix for sec. sash gear 8 AF

Handle height variable/centre  
Locking distance 700 mm

**TITAN AF**

3.4





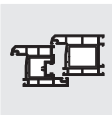
## Application matrix for sec. sash gear 8 AF

Handle height variable/centre  
Locking distance 700 mm

**TITAN AF**

Material number	Description	FFH (mm)	x (mm)	G (mm) In the main sash
<b>TGMS1000</b>	sec. sash gear 8 sz 70	701 - 1100	305 - 505	350 - 550
<b>TGMS1010</b>	sec. sash gear 8 sz 80	801 - 1200	355 - 505	400 - 600
<b>TGMS1050</b>	sec. sash gear 8 sz 120 2SB 70	1201 - 1600	515 - 715	600 - 800
<b>TGMS1060</b>	sec. sash gear 8 sz 160 2SB 70	1601 - 2000	650 - 850	800 - 1000
<b>TGMS1070</b>	sec. sash gear 8 sz 200 3SB 70	2001 - 2400	850 - 1050	1000 - 1200



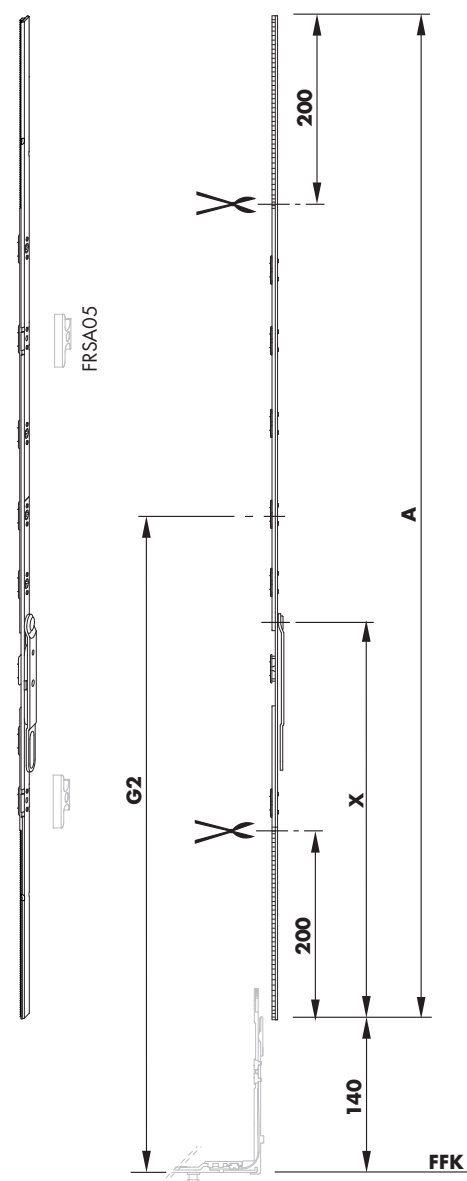


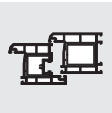
## Technical information

Part number	Description	FFH	Dimensions (mm)			
			G2	A	X	
TGMS1000-...	sec.sash gear 8 sz 70	701 - 1100	300 - 500	820	365	3
TGMS1010-...	sec.sash gear 8 sz 80	801 - 1200	400 - 600	920	365	4
TGMS1050-...	sec.sash gear 8 sz 120 2SB 70	1201 - 1600	600 - 800	1320	575	7
TGMS1060-...	sec.sash gear 8 sz 160 2SB 70	1601 - 2000	800 - 1000	1720	710	7
TGMS1040-...	sec.sash gear 8 sz 200	2001 - 2400	1000 - 1200	2120	910	9



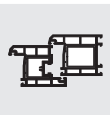
- Cannot be combined with SIEGENIA gear backset 7 mm!
- Handle height centre/variable
- Can be used in the secondary sash with groove ../8x4
- G2 in the main sash
- FRSA05 profile related, refer to PDB
- Reverse-action





## Sales information

Description	Part number	Surface	Colour	Box quantity
sec.sash gear 8 sz 70	TGMS1000-10001_	Titan Silver	without	1 pc
	TGMS1000-10004_	Titan Silver	without	25 pcs
sec.sash gear 8 sz 80	TGMS1010-10001_	Titan Silver	without	1 pc
	TGMS1010-10004_	Titan Silver	without	25 pcs
sec.sash gear 8 sz 120 2SB 70	TGMS1050-10001_	Titan Silver	without	1 pc
	TGMS1050-10004_	Titan Silver	without	25 pcs
sec.sash gear 8 sz 160 2SB 70	TGMS1060-10001_	Titan Silver	without	1 pc
	TGMS1060-10002_	Titan Silver	without	10 pcs
sec.sash gear 8 sz 200	TGMS1040-10001_	Titan Silver	without	1 pc
	TGMS1040-10002_	Titan Silver	without	10 pcs

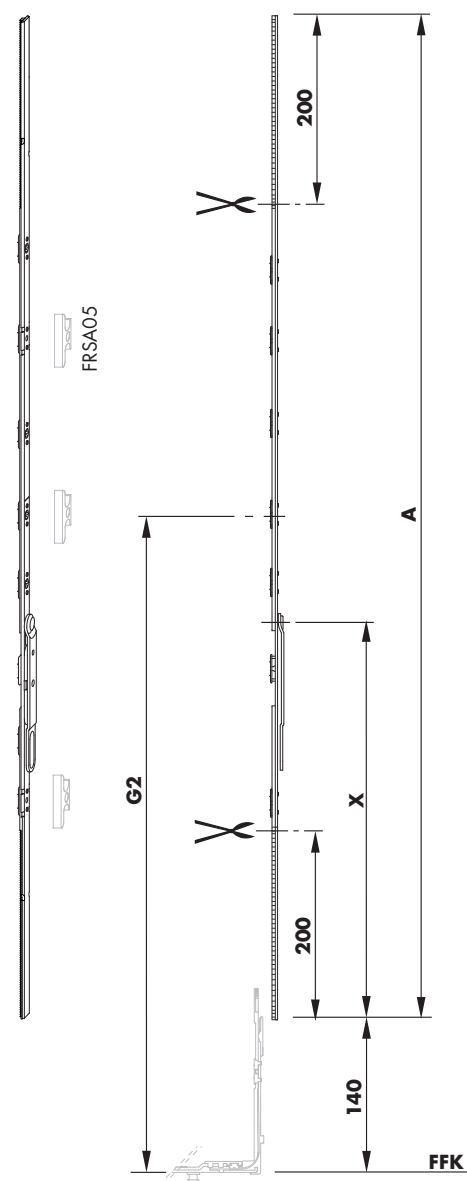


## Technical information

Part number	Description	FFH	Dimensions (mm)			Screw
			G2	A	X	
TGMS1000-...	sec.sash gear 8 sz 70	701 - 1100	300 - 500	820	365	3
TGMS1010-...	sec.sash gear 8 sz 80	801 - 1200	400 - 600	920	365	4
TGMS1050-...	sec.sash gear 8 sz 120 2SB 70	1201 - 1600	600 - 800	1320	575	7
TGMS1060-...	sec.sash gear 8 sz 160 2SB 70	1601 - 2000	800 - 1000	1720	710	7
TGMS1070-...	sec.sash gear 8 sz 200 3SB 70	2001 - 2400	1000 - 1200	2120	910	8



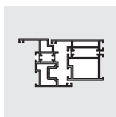
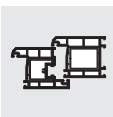
- Cannot be combined with SIEGENIA gear backset 7 mm!
- Handle height centre/variable
- Can be used in the secondary sash with groove ../8x4
- G2 in the main sash
- FRSA05 profile related, refer to PDB
- Locking distance 700 mm
- Reverse-action



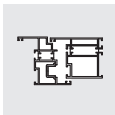
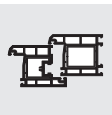


## Sales information

Description	Part number	Surface	Colour	Box quantity
sec.sash gear 8 sz 70	TGMS1000-10001_	Titan Silver	without	1 pc
	TGMS1000-10004_	Titan Silver	without	25 pcs
sec.sash gear 8 sz 80	TGMS1010-10001_	Titan Silver	without	1 pc
	TGMS1010-10004_	Titan Silver	without	25 pcs
sec.sash gear 8 sz 120 2SB 70	TGMS1050-10001_	Titan Silver	without	1 pc
	TGMS1050-10004_	Titan Silver	without	25 pcs
sec.sash gear 8 sz 160 2SB 70	TGMS1060-10001_	Titan Silver	without	1 pc
	TGMS1060-10002_	Titan Silver	without	10 pcs
sec.sash gear 8 sz 200 3SB 70	TGMS1070-10001_	Titan Silver	without	1 pc
	TGMS1070-10002_	Titan Silver	without	10 pcs



Description	Material	Page
Application matrix: gear OS/PZ AF, handle height constant		3.5 - 2
gear OS/PZ-AF GK	TGKK0550, TGKK0560, TGKK0570, TGKK0580, TGKK0740, TGKK0750, TGKK0620, TGKK0630	3.5 - 4
Application matrix: gear OS/PZ AF, handle height centre/variable		3.5 - 6
gear OS/PZ-AF GM	TGMK0500, TGMK0510, TGMK0520, TGMK0550, TGMK0560, TGMK0540, TGMK0570	3.5 - 8
Application matrix: sec. sash gear OS/PZ AF, handle height constant		3.5 - 10
sec. sash gear OS/PZ AF GK	TGKK0650, TGKK0660, TGKK0670, TGKK0680, TGKK0760, TGKK0770, TGKK0720, TGKK0730	3.5 - 12
Application matrix: sec. sash gear OS/PZ AF, handle height centre/variable		3.5 - 14
sec. sash gear OS/PZ-AF GM	TGMK0500, TGMK0610, TGMK0620, TGMK0650, TGMK0660, TGMK0640, TGMK0670	3.5 - 16
Drill holes and routing gear-set timber		3.5 - 18
Drill holes and routing gear-set PVC		3.5 - 19
gear-set	TMSL4200, TMSL4250, TMSL4300, TMSL4350, TMSL4400, TMSL4450, TMSL4500, TMSL4550	3.5 - 20
gear-set	TMSL0250, TMSL0300, TMSL0350, TMSL0400, TMSL0450, TMSL0550	3.5 - 21
gear-set PZ	TMSL1250, TMSL1300, TMSL1350, TMSL1400, TMSL1450, TMSL1500, TMSL1550	3.5 - 22
gear-set PZ22	TMSL2250, TMSL2350, TMSL2400, TMSL2450, TMSL2500	3.5 - 23

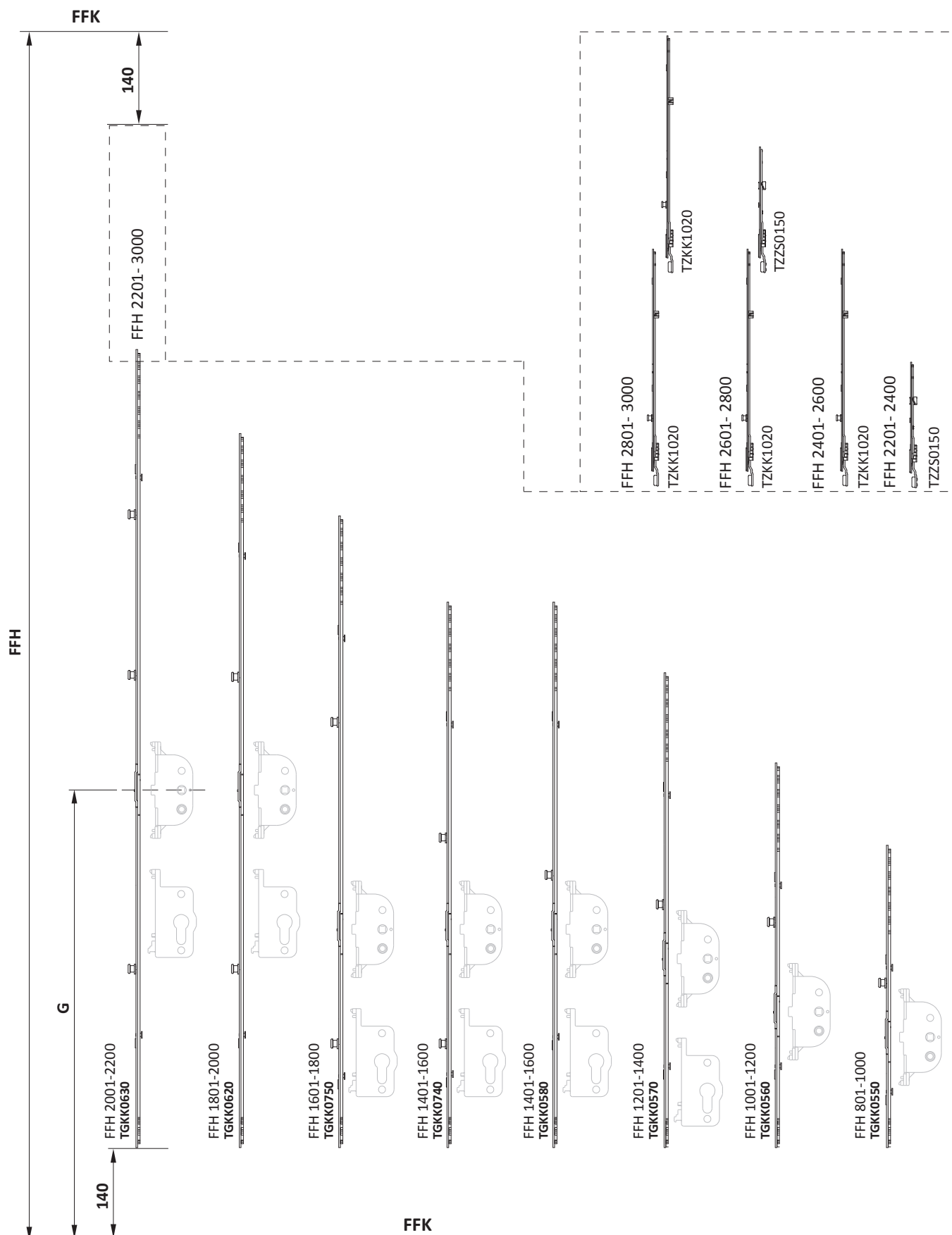


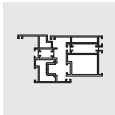
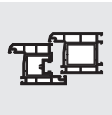
## Application matrix for gear OS/PZ-AF

Handle height constant

**TITAN AF**

3.5





## Application matrix for gear OS/PZ-AF



Handle height constant

**TITAN AF**

Material number	Description	Material number	Description	FFH (mm)	G (mm)
TGKK0550	gear OS-AF sz 80/G400 1RS			801 - 1000	400
TGKK0560	gear OS-AF sz 100/G500 1RS			1001 - 1200	500
TGKK0570	gear OS/PZ-AF sz 120/G600 1RS			1201 - 1400	600
TGKK0580	gear OS/PZ-AF sz 140/G700 1RS			1401 - 1600	700
TGKK0740	gear OS/PZ-AF sz 140/G700 2RS 70			1401 - 1600	700
TGKK0750	gear OS/PZ-AF sz 160/G700 2RS 70			1601 - 1800	700
TGKK0620	gear OS/PZ-AF sz 180/G1000 2RS 70			1801 - 2000	1000
TGKK0630	gear OS/PZ-AF sz 200/G1000 3RS 70			2001 - 2200	1000
TGKK0630	gear OS/PZ-AF sz 200/G1000 3RS 70	TZZS0150	linkage AF sz 1	2201 - 2400	1000
TGKK0630	gear OS/PZ-AF sz 200/G1000 3RS 70	TZKK1020	linkage KK/AF sz 2 1RS	2401 - 2600	1000
TGKK0630	gear OS/PZ-AF sz 200/G1000 3RS 70	TZKK1020	linkage KK/AF sz 2 1RS	2601 - 2800	1000
		TZZS0150	linkage AF sz 1		
TGKK0630	gear OS/PZ-AF sz 200/G1000 3RS 70	TZKK1020	linkage KK/AF sz 2 1RS	2801 - 3000	1000
		TZKK1020	linkage KK/AF sz 2 1RS		

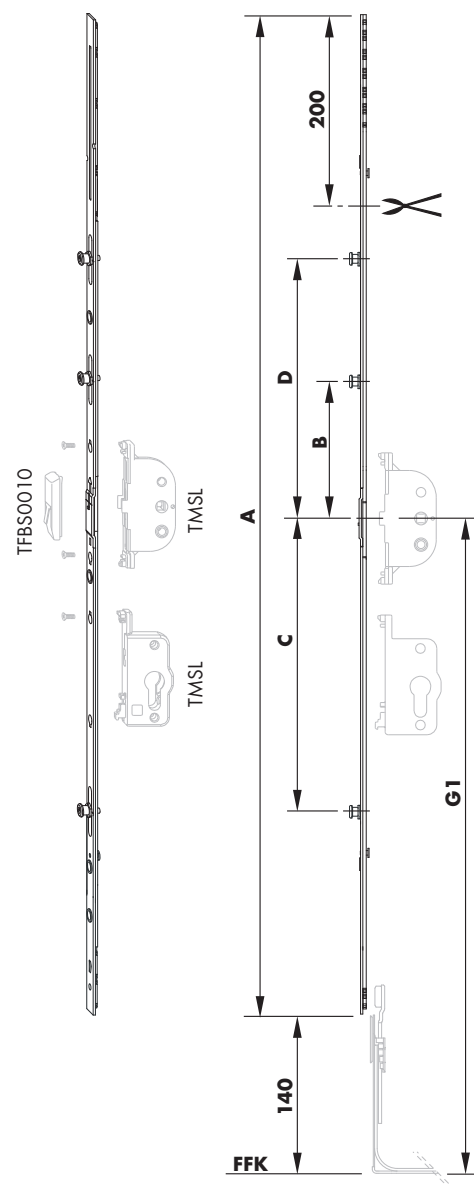


## Technical information

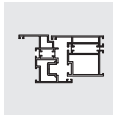
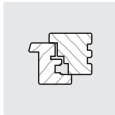
Part number	Description	FFH	Dimensions (mm)						
			G1	A	B	C	D		
TGKK0550-...	gear OS-AF sz 80/G400 1RS	801 - 1000	400	720	80	-	-	1	3
TGKK0560-...	gear OS-AF sz 100/G500 1RS	1001 - 1200	500	920	180	-	-	1	5
TGKK0570-...	gear OS/PZ-AF size120/G600 1RS	1201 - 1400	600	1120	80	-	-	1	5
TGKK0580-...	gear OS/PZ-AF sz 140/G700 1RS	1401 - 1600	700	1320	80	-	-	1	5
TGKK0740-...	gear OS/PZ-AF sz 140/G700 2RS 70	1401 - 1600	700	1320	180	320	-	2	7
TGKK0750-...	gear OS/PZ-AF sz 160/G700 2RS 70	1601 - 1800	700	1520	380	320	-	2	7
TGKK0620-...	gear OS/PZ-AF sz.180/G1000 2RS 70	1801 - 2000	1000	1720	280	420	-	2	7
TGKK0630-...	gear OS/PZ-AF sz.200/G1000 3RS 70	2001 - 3000	1000	1920	280	420	680	3	8



- Handle height constant
- PZ box assembly only possible on espagnolette size 120 upwards

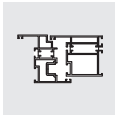
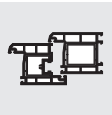






## Sales information

Description	Part number	Surface	Colour	Box quantity
gear OS-AF sz 80/G400 1RS	TGKK0550-10001_	Titan Silver	without	1 pc
	TGKK0550-10004_	Titan Silver	without	25 pcs
gear OS-AF sz 100/G500 1RS	TGKK0560-10001_	Titan Silver	without	1 pc
	TGKK0560-10004_	Titan Silver	without	25 pcs
gear OS/PZ-AF size120/G600 1RS	TGKK0570-10001_	Titan Silver	without	1 pc
	TGKK0570-10004_	Titan Silver	without	25 pcs
gear OS/PZ-AF sz 140/G700 1RS	TGKK0580-10001_	Titan Silver	without	1 pc
	TGKK0580-10004_	Titan Silver	without	25 pcs
gear OS/PZ-AF sz 140/G700 2RS 70	TGKK0740-10001_	Titan Silver	without	1 pc
	TGKK0740-10004_	Titan Silver	without	25 pcs
gear OS/PZ-AF sz 160/G700 2RS 70	TGKK0750-10001_	Titan Silver	without	1 pc
	TGKK0750-10002_	Titan Silver	without	10 pcs
gear OS/PZ-AF sz.180/G1000 2RS 70	TGKK0620-10001_	Titan Silver	without	1 pc
	TGKK0620-10002_	Titan Silver	without	10 pcs
gear OS/PZ-AF sz.200/G1000 3RS 70	TGKK0630-10001_	Titan Silver	without	1 pc
	TGKK0630-10002_	Titan Silver	without	10 pcs

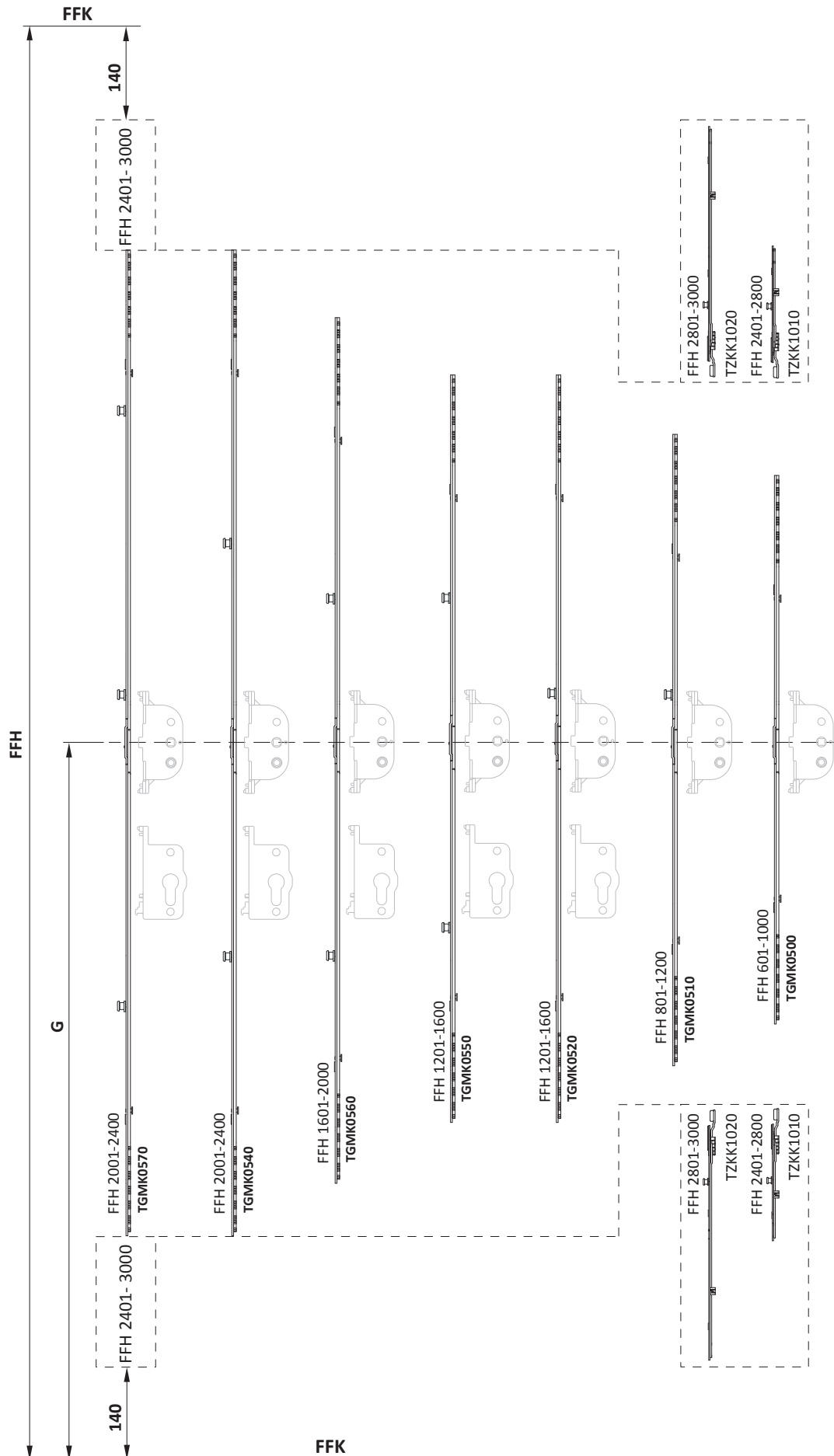


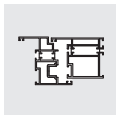
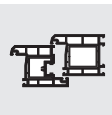
## Application matrix for gear OS/PZ-AF

Handle height centre/variable

**TITAN AF**

3.5



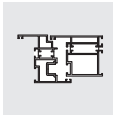


## Application matrix for gear OS/PZ-AF



Handle height centre/variable

**TITAN AF**

Material number	Description	Material number	Description	FFH (mm)	G (mm)
<b>TGMK0500</b>	gear OS-AF sz 60			601 - 1000	300 - 500
<b>TGMK0510</b>	gear OS-AF sz 80 1RS			801 - 1200	400 - 600
<b>TGMK0520</b>	gear OS/PZ-AF sz 120 1RS			1201 - 1600	600 - 800
<b>TGMK0550</b>	gear OS/PZ-AF sz 120 2RS 70			1201 - 1600	600 - 800
<b>TGMK0560</b>	gear OS/PZ-AF sz 160 2RS 70			1601 - 2000	800 - 1000
<b>TGMK0540</b>	gear OS/PZ-AF sz 200 2RS			2001 - 2400	1000 - 1200
<b>TGMK0540</b>	gear OS/PZ-AF sz 200 2RS	<b>TZKK1010</b>	<b>2</b> linkages KK/AF sz 1 1RS	2401 - 2800	1200 - 1400
<b>TGMK0540</b>	gear OS/PZ-AF sz 200 2RS	<b>TZKK1020</b>	<b>2</b> linkages KK/AF sz 2 1RS	2801 - 3000	1400 - 1500
<b>TGMK0570</b>	gear OS/PZ-AF sz 200 3RS 70			2001 - 2400	1000 - 1200
<b>TGMK0570</b>	gear OS/PZ-AF sz 200 3RS 70	<b>TZKK1010</b>	<b>2</b> linkages KK/AF sz 1 1RS	2401 - 2800	1200 - 1400
<b>TGMK0570</b>	gear OS/PZ-AF sz 200 3RS 70	<b>TZKK1020</b>	<b>2</b> linkages KK/AF sz 2 1RS	2801 - 3000	1400 - 1500

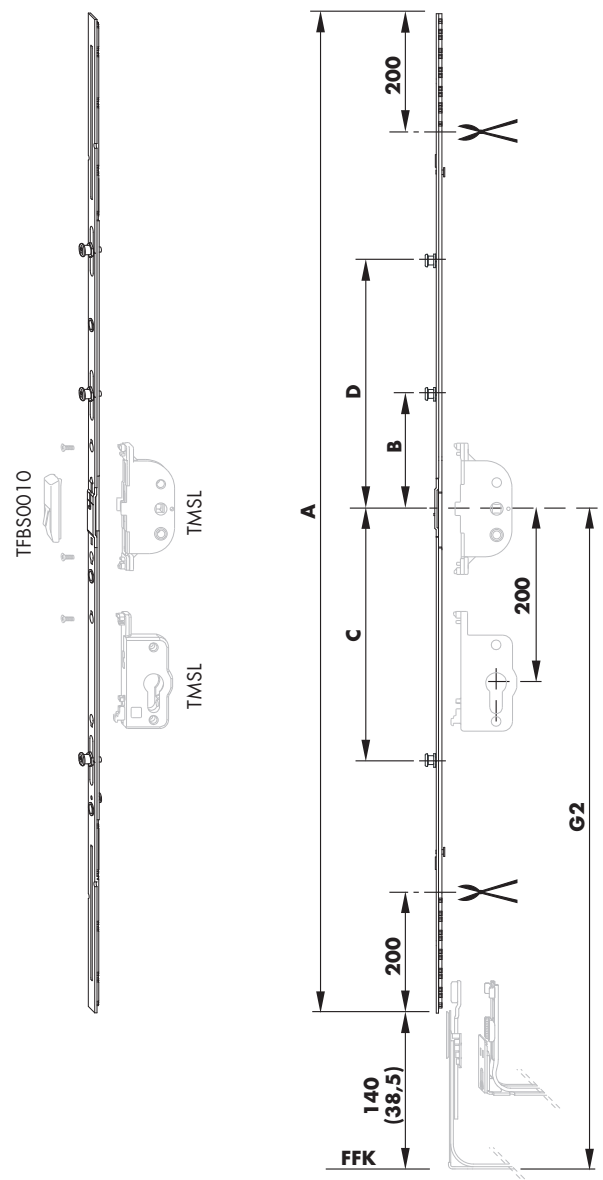


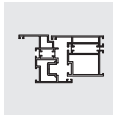
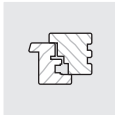
## Technical information

Part number	Description	FFH	Dimensions (mm)						
			G2	A	B	C	D		
TGMK0500-...	gear OS-AF sz 60	600 - 1000	300 - 500	720	-	-	-	0	1
TGMK0510-...	gear OS-AF sz 80 1RS	801 - 1200	400 - 600	920	80	-	-	1	3
TGMK0520-...	gear OS/PZ-AF sz 120 1RS	1201 - 1600	600 - 800	1320	80	-	-	1	4
TGMK0550-...	gear OS/PZ-AF sz 120 2RS 70	1201 - 1600	600 - 800	1320	280	320	-	2	4
TGMK0560-...	gear OS/PZ-AF sz 160 2RS 70	1601 - 2000	800 - 1000	1720	280	408	-	2	6
TGMK0540-...	gear OS/PZ-AF sz 200 2RS	2001 - 3000	1000 - 1500	2120	392	408	-	2	8
TGMK0570-...	gear OS/PZ-AF sz 200 3RS 70	2001 - 3000	1000 - 1500	2120	80	498	502	3	8



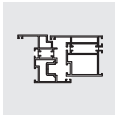
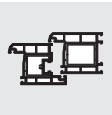
- Handle height centre/variable
- PZ box assembly only possible on espagnolette size 120 upwards





## Sales information

Description	Part number	Surface	Colour	Box quantity
gear OS-AF sz 60	TGMK0500-10001_	Titan Silver	without	1 pc
	TGMK0500-10004_	Titan Silver	without	25 pcs
gear OS-AF sz 80 1RS	TGMK0510-10001_	Titan Silver	without	1 pc
	TGMK0510-10004_	Titan Silver	without	25 pcs
gear OS/PZ-AF sz 120 1RS	TGMK0520-10001_	Titan Silver	without	1 pc
	TGMK0520-10004_	Titan Silver	without	25 pcs
gear OS/PZ-AF sz 120 2RS 70	TGMK0550-10001_	Titan Silver	without	1 pc
	TGMK0550-10004_	Titan Silver	without	25 pcs
gear OS/PZ-AF sz 160 2RS 70	TGMK0560-10001_	Titan Silver	without	1 pc
	TGMK0560-10002_	Titan Silver	without	10 pcs
gear OS/PZ-AF sz 200 2RS	TGMK0540-10001_	Titan Silver	without	1 pc
	TGMK0540-10002_	Titan Silver	without	10 pcs
gear OS/PZ-AF sz 200 3RS 70	TGMK0570-10001_	Titan Silver	without	1 pc
	TGMK0570-10002_	Titan Silver	without	10 pcs

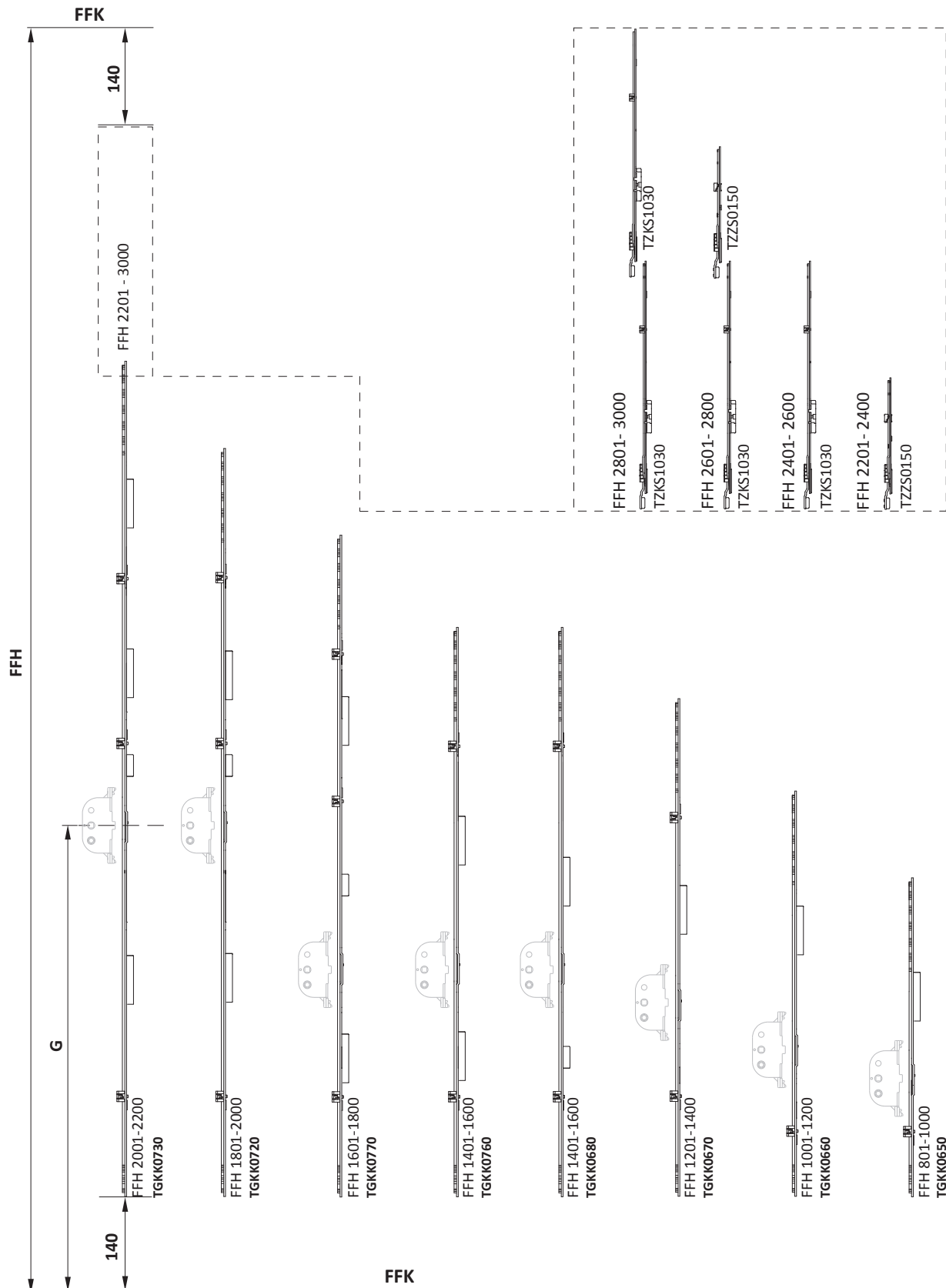


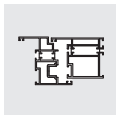
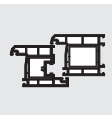
## Application matrix sec. sash gear OS/PZ-AF

Handle height constant

**TITAN AF**

3.5



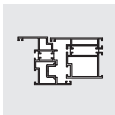
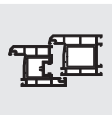


## Application matrix sec. sash gear OS/PZ-AF

Handle height constant

**TITAN AF**

Material number	Description	Material number	Description	FFH (mm)	G (mm) In the main sash
TGKK0650	gear OS-AF sz 80 1SB			801 - 1000	400
TGKK0660	gear OS-AF sz 100 1SB			1001 - 1200	500
TGKK0670	gear OS/PZ-AF sz 120 1SB			1201 - 1400	600
TGKK0680	gear OS/PZ-AF sz 140 1SB			1401 - 1600	700
TGKK0760	gear OS/PZ-AF sz 140 2SB 70			1401 - 1600	700
TGKK0770	gear OS/PZ-AF sz 160 2SB 70			1601 - 1800	700
TGKK0720	gear OS/PZ-AF sz 180 2SB 70			1801 - 2000	1000
TGKK0730	gear OS/PZ-AF sz 200 3SB 70			2001 - 2200	1000
TGKK0730	gear OS/PZ-AF sz 200 3SB 70	TZZS0150	linkage AF sz 1	2201 - 2400	1000
TGKK0730	gear OS/PZ-AF sz 200 3SB 70	TZKS1030	linkage AF sz 2 1SB-RS	2401 - 2600	1000
TGKK0730	gear OS/PZ-AF sz 200 3SB 70	TZKS1030	linkage AF sz 2 1SB-RS	2601 - 2800	1000
		TZZS0150	linkage AF sz 1		
TGKK0730	gear OS/PZ-AF sz 200 3SB 70	TZKS1030	linkage AF sz 2 1SB-RS	2801 - 3000	1000
		TZKS1030	linkage AF sz 2 1SB-RS		

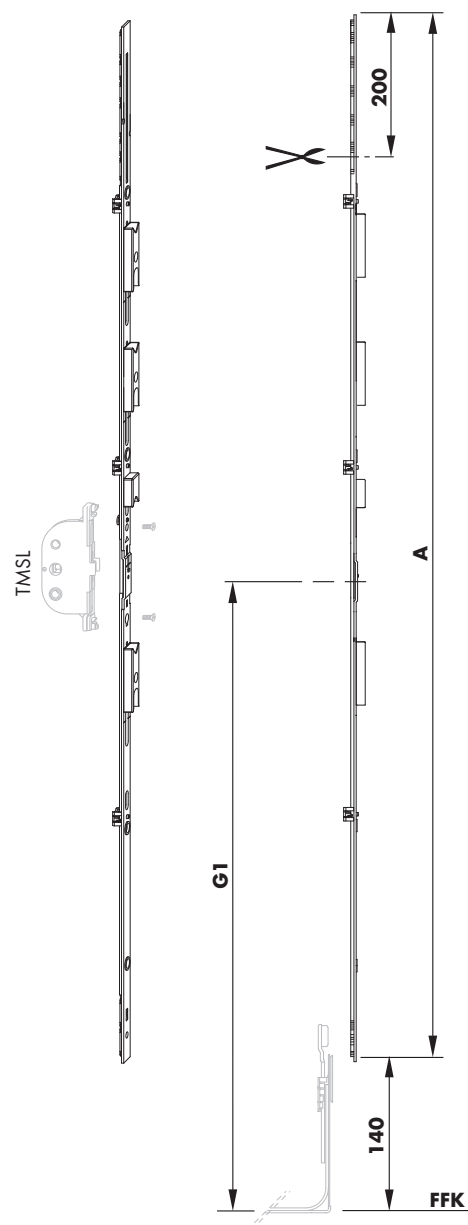


## Technical information

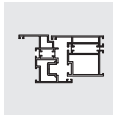
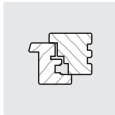
Part number	Description	FFH	Dimensions (mm)			
			G1	A		
TGKK0650-...	gear OS-AF sz 80 1SB	801 - 1000	400	720	0	4
TGKK0660-...	gear OS-AF sz 100 1SB	1001 - 1200	500	920	0	6
TGKK0670-...	gear OS/PZ-AF sz 120 1SB	1201 - 1400	600	1120	0	5
TGKK0680-...	gear OS/PZ-AF sz 140 1SB	1401 - 1600	700	1320	0	5
TGKK0760-...	gear OS/PZ-AF sz 140/G700 2SB 70	1401 - 1600	700	1320	0	7
TGKK0770-...	gear OS/PZ-AF sz 160/G700 2SB 70	1601 - 1800	700	1520	0	8
TGKK0720-...	gear OS/PZ-AF sz 180 2SB 70	1801 - 2000	1000	1720	0	8
TGKK0730-...	gear OS/PZ-AF sz 200 3SB 70	2001 - 3000	1000	1920	0	10



- Handle height constant
- G1 in the main sash
- Use in slave sashes with opposing fitting groove

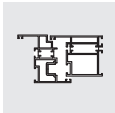
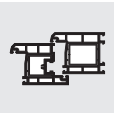






## Sales information

Description	Part number	Surface	Colour	Box quantity
gear OS-AF sz 80 1SB	TGKK0650-10001_	Titan Silver	without	1 pc
	TGKK0650-10004_	Titan Silver	without	25 pcs
gear OS-AF sz 100 1SB	TGKK0660-10001_	Titan Silver	without	1 pc
	TGKK0660-10004_	Titan Silver	without	25 pcs
gear OS/PZ-AF sz 120 1SB	TGKK0670-10001_	Titan Silver	without	1 pc
	TGKK0670-10004_	Titan Silver	without	25 pcs
gear OS/PZ-AF sz 140 1SB	TGKK0680-10001_	Titan Silver	without	1 pc
	TGKK0680-10004_	Titan Silver	without	25 pcs
gear OS/PZ-AF sz 140/G700 2SB 70	TGKK0760-10001_	Titan Silver	without	1 pc
	TGKK0760-10004_	Titan Silver	without	25 pcs
gear OS/PZ-AF sz 160/G700 2SB 70	TGKK0770-10001_	Titan Silver	without	1 pc
	TGKK0770-10002_	Titan Silver	without	10 pcs
gear OS/PZ-AF sz 180 2SB 70	TGKK0720-10001_	Titan Silver	without	1 pc
	TGKK0720-10002_	Titan Silver	without	10 pcs
gear OS/PZ-AF sz 200 3SB 70	TGKK0730-10001_	Titan Silver	without	1 pc
	TGKK0730-10002_	Titan Silver	without	10 pcs

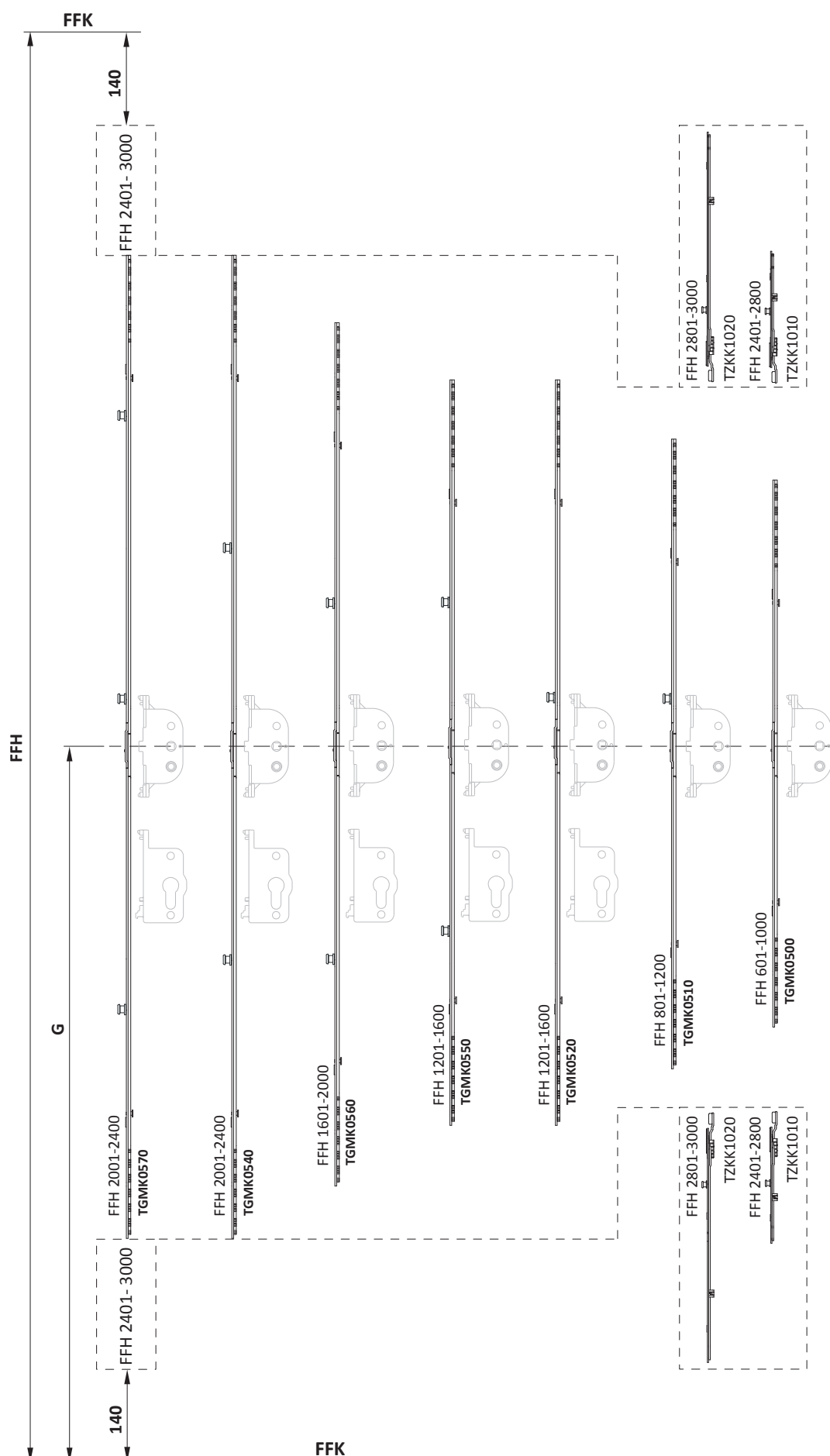


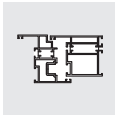
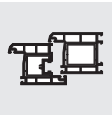
## Application matrix sec. sash gear OS/PZ-AF

Handle height centre/variable

**TITAN AF**

3.5



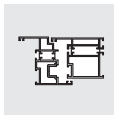
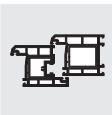


## Application matrix sec. sash gear OS/PZ-AF

Handle height centre/variable

**TITAN AF**

Material number	Description	Material number	Description	FFH (mm)	G (mm) In the main sash
<b>TGMK0500</b>	gear OS-AF sz 60			600 - 1000	300 - 500
<b>TGMK0610</b>	gear OS-AF sz 80 1SB			801 - 1200	400 - 600
<b>TGMK0620</b>	gear OS/PZ-AF sz 120 1SB			1201 - 1600	600 - 800
<b>TGMK0650</b>	gear OS/PZ-AF sz 120 2SB 70			1201 - 1600	600 - 800
<b>TGMK0660</b>	gear OS/PZ-AF sz 160 2SB 70			1601 - 2000	800 - 1000
<b>TGMK0640</b>	gear OS/PZ-AF sz 200 2SB			2001 - 2400	1000 - 1200
<b>TGMK0640</b>	gear OS/PZ-AF sz 200 2SB	<b>TZKS1020</b>	linkage AF sz 1 1SB-RS	2401 - 2800	1200 - 1400
		<b>TZKS1060</b>	linkage AF sz 1 1SB-VSU		
<b>TGMK0640</b>	gear OS/PZ-AF sz 200 2SB	<b>TZKS1030</b>	linkage AF sz 2 1SB-RS	2801 - 3000	1400 - 1500
		<b>TZKS1070</b>	linkage AF sz 2 1SB-VSU		
<b>TGMK0670</b>	gear OS/PZ-AF sz 200 3SB 70			2001 - 2400	1000 - 1200
<b>TGMK0670</b>	gear OS/PZ-AF sz 200 3SB 70	<b>TZKS1020</b>	linkage AF sz 1 1SB-RS	2401 - 2800	1200 - 1400
		<b>TZKS1060</b>	linkage AF sz 1 1SB-VSU		
<b>TGMK0670</b>	gear OS/PZ-AF sz 200 3SB 70	<b>TZKS1030</b>	linkage AF sz 2 1SB-RS	2801 - 3000	1400 - 1500
		<b>TZKS1070</b>	linkage AF sz 2 1SB-VSU		

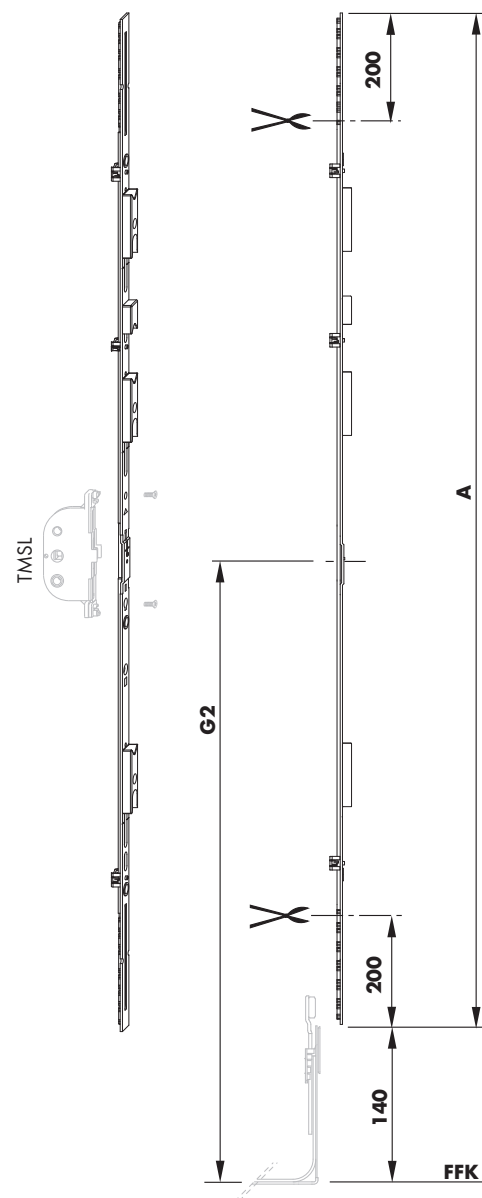


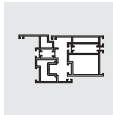
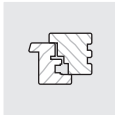
## Technical information

Part number	Description	FFH	Dimensions (mm)			
			G2	A		
TGMK0500-...	gear OS-AF sz 60	600 - 1000	300 - 500	720	0	1
TGMK0610-...	gear OS-AF sz 80 1SB	801 - 1200	400 - 600	920	0	4
TGMK0620-...	gear OS/PZ-AF sz 120 1SB	1201 - 1600	600 - 800	1320	0	5
TGMK0650-...	gear OS/PZ-AF sz 120 2SB 70	1201 - 1600	600 - 800	1320	0	6
TGMK0660-...	gear OS/PZ-AF sz 160 2SB 70	1601 - 2000	800 - 1000	1720	0	7
TGMK0640-...	gear OS/PZ-AF sz 200 2SB	2001 - 3000	1000 - 1500	2120	0	9
TGMK0670-...	gear OS/PZ-AF sz 200 3SB 70	2001 - 3000	1000 - 1500	2120	0	9



- Handle height centre/variable
- G2 in the main sash
- Use in slave sashes with opposing fitting groove



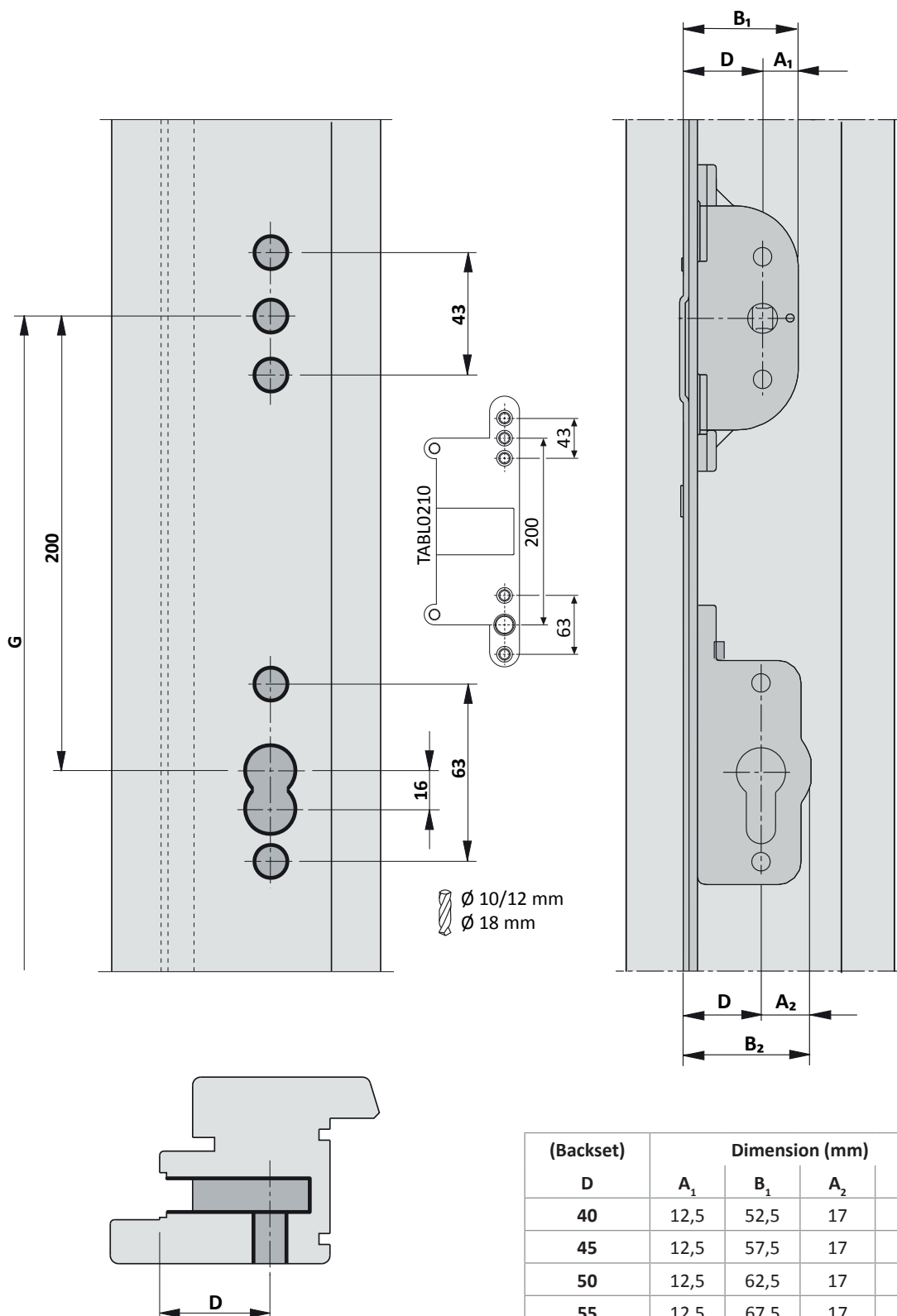


## Sales information

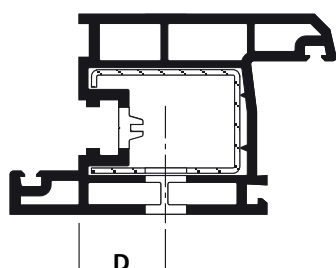
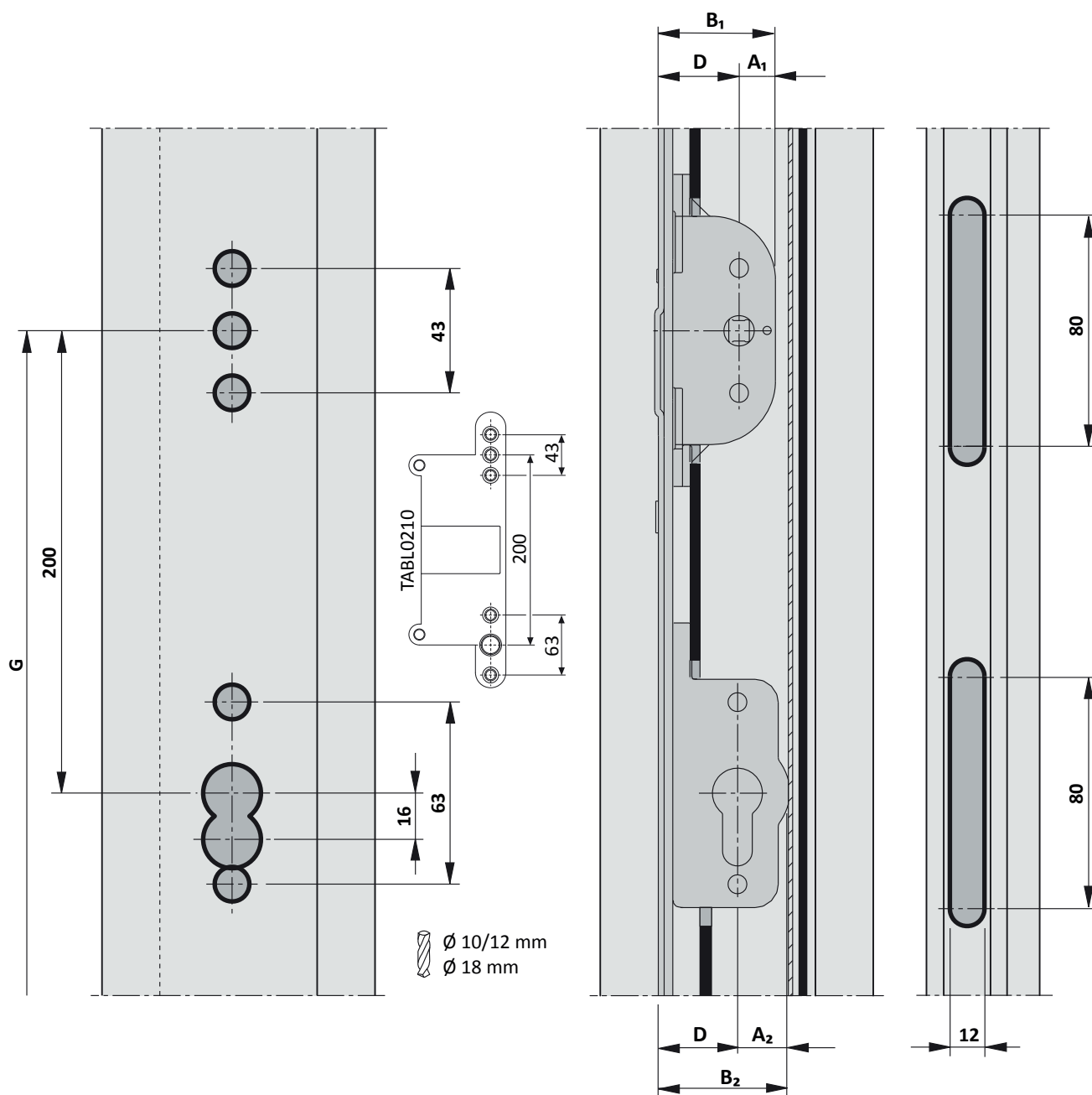
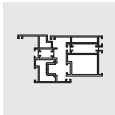
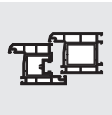
Description	Part number	Surface	Colour	Box quantity
gear OS-AF sz 60	TGMK0500-10001_	Titan Silver	without	1 pc
	TGMK0500-10004_	Titan Silver	without	25 pcs
gear OS-AF sz 80 1SB	TGMK0610-10001_	Titan Silver	without	1 pc
	TGMK0610-10004_	Titan Silver	without	25 pcs
gear OS/PZ-AF sz 120 1SB	TGMK0620-10001_	Titan Silver	without	1 pc
	TGMK0620-10004_	Titan Silver	without	25 pcs
gear OS/PZ-AF sz 120 2SB 70	TGMK0650-10001_	Titan Silver	without	1 pc
	TGMK0650-10004_	Titan Silver	without	25 pcs
gear OS/PZ-AF sz 160 2SB 70	TGMK0660-10001_	Titan Silver	without	1 pc
	TGMK0660-10002_	Titan Silver	without	10 pcs
gear OS/PZ-AF sz 200 2SB	TGMK0640-10001_	Titan Silver	without	1 pc
	TGMK0640-10002_	Titan Silver	without	10 pcs
gear OS/PZ-AF sz 200 3SB 70	TGMK0670-10001_	Titan Silver	without	1 pc
	TGMK0670-10002_	Titan Silver	without	10 pcs



3.5



(Backset)	Dimension (mm)			
D	A <sub>1</sub>	B <sub>1</sub>	A <sub>2</sub>	B <sub>2</sub>
40	12,5	52,5	17	57
45	12,5	57,5	17	62
50	12,5	62,5	17	67
55	12,5	67,5	17	72



(Backset)	Dimension (mm)			
D	A <sub>1</sub>	B <sub>1</sub>	A <sub>2</sub>	B <sub>2</sub>
20	12,5	32,5	-	-
25	12,5	37,5	17	42
30	12,5	42,5	17	47
35	12,5	47,5	17	52
40	12,5	52,5	17	57
45	12,5	57,5	17	62
50	12,5	62,5	17	67
55	12,5	67,5	17	72

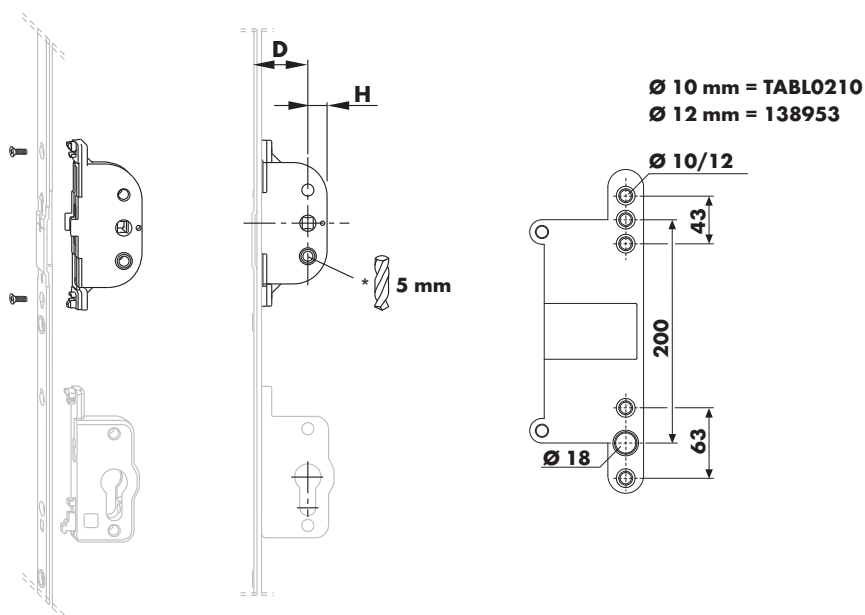


## Technical information

Part number	Description	FFH	Dimensions (mm)	
			D	H
TMSL4200-...	gear set 20 M5	660 - 3000	20	12,50
TMSL4250-...	gear set 25 M5	660 - 3000	25	12,50
TMSL4300-...	gear set 30 M5	660 - 3000	30	12,50
TMSL4350-...	gear set 35 M5	660 - 3000	35	12,50
TMSL4400-...	gear set 40 M5	660 - 3000	40	12,50
TMSL4450-...	gear set 45 M5	660 - 3000	45	12,50
TMSL4500-...	gear set 50 M5	660 - 3000	50	12,50
TMSL4550-...	gear set 55 M5	660 - 3000	55	12,50



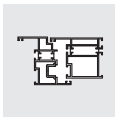
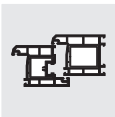
- Please note:  
On timber windows, gear sets can only be used on backsets 40-55!
- \* When mounting 2 handles, the screw thread in the lockcase must be drilled out
- Dimension D = backset
- Dimension H = rear backset
- **Note:**  
Do not exceed the max. 2.5 Nm torque while screwing on the gear box.



## Sales information

Description	Part number	Surface	Colour	Box quantity
gear set 20 M5	TMSL4200-10005_	Titan Silver	without	50 pcs
gear set 25 M5	TMSL4250-10005_	Titan Silver	without	50 pcs
gear set 30 M5	TMSL4300-10005_	Titan Silver	without	50 pcs
gear set 35 M5	TMSL4350-10005_	Titan Silver	without	50 pcs
gear set 40 M5	TMSL4400-10005_	Titan Silver	without	50 pcs
gear set 45 M5	TMSL4450-10005_	Titan Silver	without	50 pcs
gear set 50 M5	TMSL4500-10005_	Titan Silver	without	50 pcs
gear set 55 M5	TMSL4550-10005_	Titan Silver	without	50 pcs



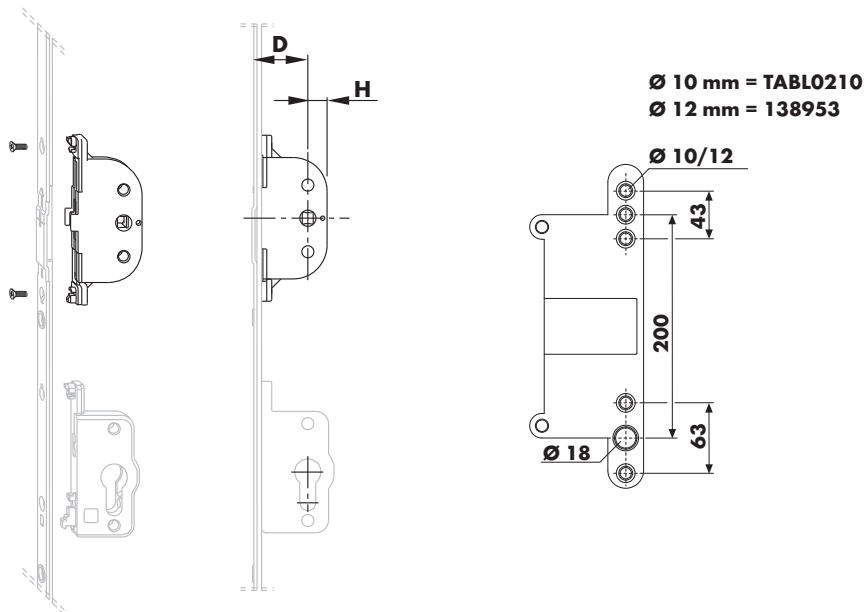


## Technical information

Part number	Description	FFH	Dimensions (mm)	
			D	H
TMSL0250-...	gear set 25	660 - 3000	25	12,50
TMSL0300-...	gear set 30	660 - 3000	30	12,50
TMSL0350-...	gear set 35	660 - 3000	35	12,50
TMSL0400-...	gear set 40	660 - 3000	40	12,50
TMSL0450-...	gear set 45	660 - 3000	45	12,50
TMSL0550-...	gear set 55	660 - 3000	55	12,50



- Please note:  
On timber windows, gear sets can only be used on backsets 40-55!
- Dimension D = backset
- Dimension H = rear backset
- **Note:**  
Do not exceed the max. 2.5 Nm torque while screwing on the gear box.



## Sales information

Description	Part number	Surface	Colour	Box quantity
gear set 25	TMSL0250-10005_	Titan Silver	without	50 pcs
gear set 30	TMSL0300-10005_	Titan Silver	without	50 pcs
gear set 35	TMSL0350-10005_	Titan Silver	without	50 pcs
gear set 40	TMSL0400-10005_	Titan Silver	without	50 pcs
gear set 45	TMSL0450-10005_	Titan Silver	without	50 pcs
gear set 55	TMSL0550-10005_	Titan Silver	without	50 pcs



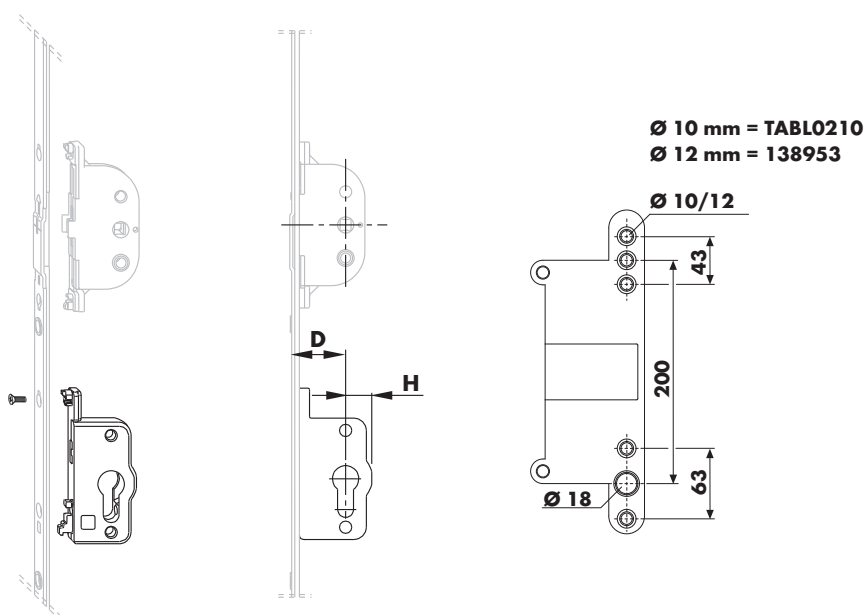
## Technical information

Part number	Description	FFH	Dimensions (mm)	
			D	H
TMSL1250-...	gear set PZ 25	1001 - 3000	25	17
TMSL1300-...	gear set PZ 30	1001 - 3000	30	17
TMSL1350-...	gear set PZ 35	1001 - 3000	35	17
TMSL1400-...	gear set PZ 40	1001 - 3000	40	17
TMSL1450-...	gear set PZ 45	1001 - 3000	45	17
TMSL1500-...	gear set PZ 50	1001 - 3000	50	17
TMSL1550-...	gear set PZ 55	1001 - 3000	55	17



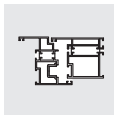
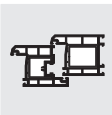
- Please note:  
On timber windows, gear sets can only be used on backsets 40-55!
- Dimension D = backset
- Dimension H = rear backset
- **Note:**  
Do not exceed the max. 2.5 Nm torque while screwing on the gear box.

3.5



## Sales information

Description	Part number	Surface	Colour	Box quantity
gear set PZ 25	TMSL1250-10005_	Titan Silver	without	50 pcs
gear set PZ 30	TMSL1300-10005_	Titan Silver	without	50 pcs
gear set PZ 35	TMSL1350-10005_	Titan Silver	without	50 pcs
gear set PZ 40	TMSL1400-10005_	Titan Silver	without	50 pcs
gear set PZ 45	TMSL1450-10005_	Titan Silver	without	50 pcs
gear set PZ 50	TMSL1500-10005_	Titan Silver	without	50 pcs
gear set PZ 55	TMSL1550-10005_	Titan Silver	without	50 pcs

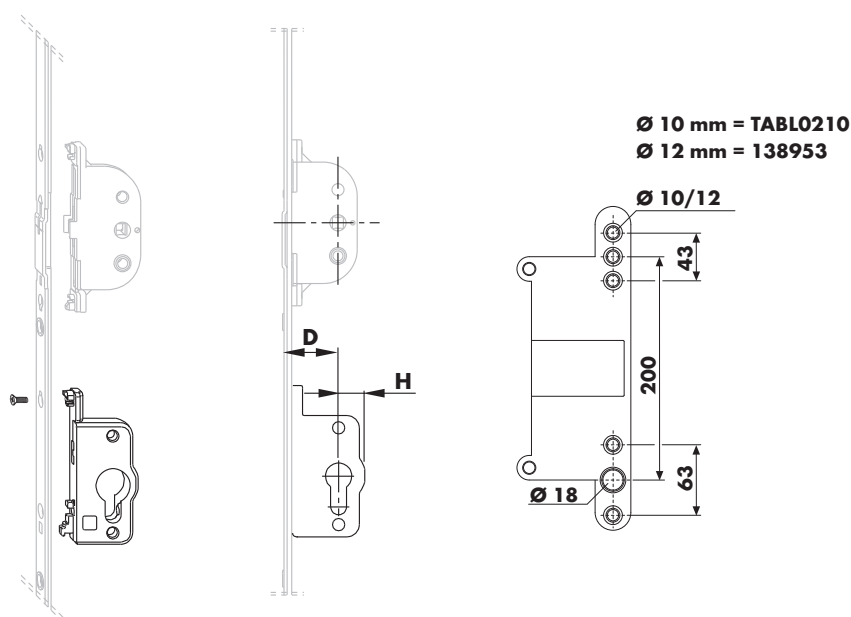


## Technical information

Part number	Description	FFH	Dimensions (mm)	
			D	H
TMSL2250-...	gear set PZ22 25	1001 - 3000	25	17
TMSL2350-...	gear set PZ22 35	1001 - 3000	35	17
TMSL2400-...	gear set PZ22 40	1001 - 3000	40	17
TMSL2450-...	gear set PZ22 45	1001 - 3000	45	17
TMSL2500-...	gear set PZ22 50	1001 - 3000	50	17

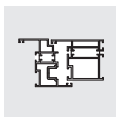
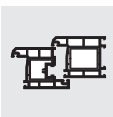


- Please note:  
On timber windows, gear sets can only be used on backsets 40-55!
- Dimension D = backset
- Dimension H = rear backset
- Drill out hole for profile cylinder (Ø 18) to 22 mm
- **Note:**  
Do not exceed the max. 2.5 Nm torque while screwing on the gear box.

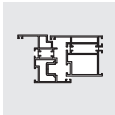
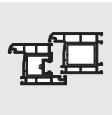


## Sales information

Description	Part number	Surface	Colour	Box quantity
gear set PZ22 25	TMSL2250-10005_	Titan Silver	without	50 pcs
gear set PZ22 35	TMSL2350-10005_	Titan Silver	without	50 pcs
gear set PZ22 40	TMSL2400-10005_	Titan Silver	without	50 pcs
gear set PZ22 45	TMSL2450-10005_	Titan Silver	without	50 pcs
gear set PZ22 50	TMSL2500-10005_	Titan Silver	without	50 pcs



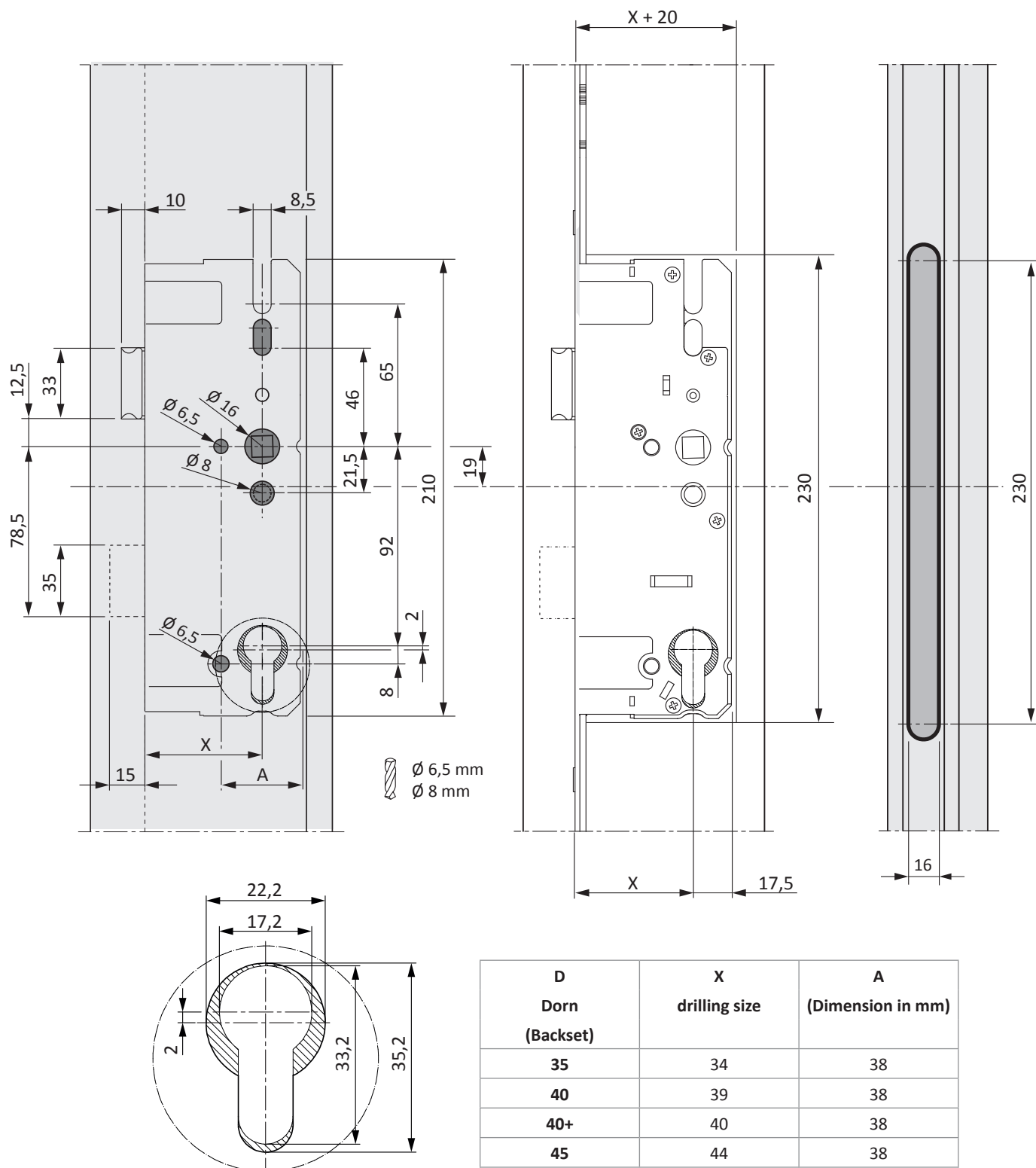
<b>Description</b>	<b>Material</b>	<b>Page</b>
Drill holes and routing		3.6 - 2
Installation information changing DIN orientation of the latches		3.6 - 3
door gear DB OR/PZ	TGKT3000, TGKT3010, TGKT3030, TGKT3050, TGKT3060, TGKT3070, TGKT3080	3.6 - 4
door gear DB MR/PZ	TGKT3100, TGKT3110, TGKT3120, TGKT3130, TGKT3150, TGKT3160, TGKT3170, TGKT3180	3.6 - 6
door gear DB MR/PZ	TGKT3451, TGKT3452	3.6 - 9
door gear DB/K MR/PZ	TGKT3410, TGKT3440	3.6 - 10
door gear DB OR/RZ	TGKT3230, TGKT3250, TGKT3260, TGKT3270	3.6 - 12
door gear DB MR/RZ	TGKT3330, TGKT3350, TGKT3360, TGKT3370, TGKT3380	3.6 - 14
door gear DB/G OR/PZ	TGKT6350, TGKT6500	3.6 - 16
door gear DB/G OR/PZ	TGKT5250, TGKT5280, TGKT5350, TGKT5400	3.6 - 18
sec.sash door gear	TGKT9000	3.6 - 20

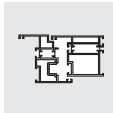
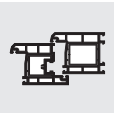


## Door gear

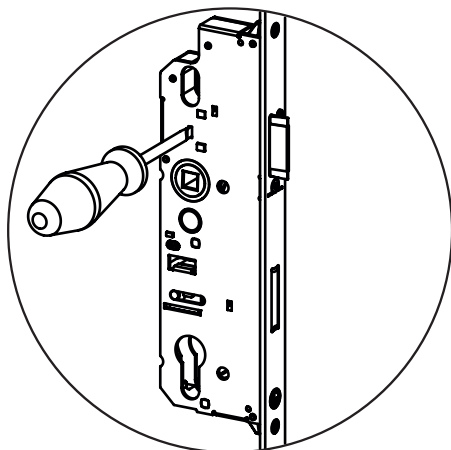
Drill holes and routing

**TITAN AF**

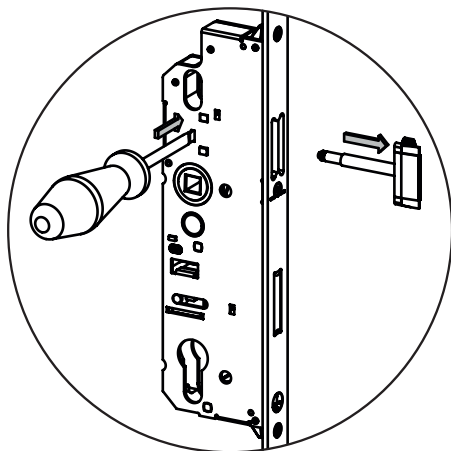




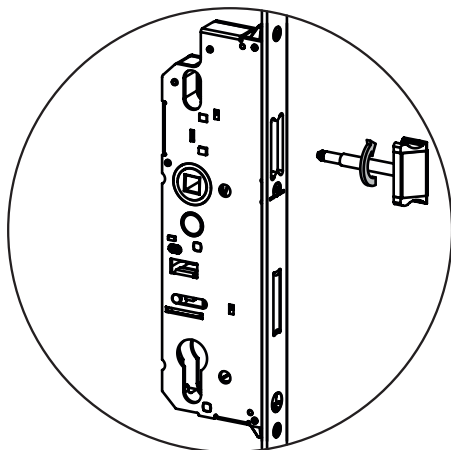
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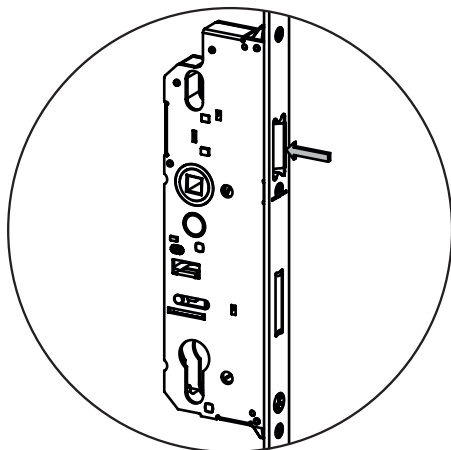
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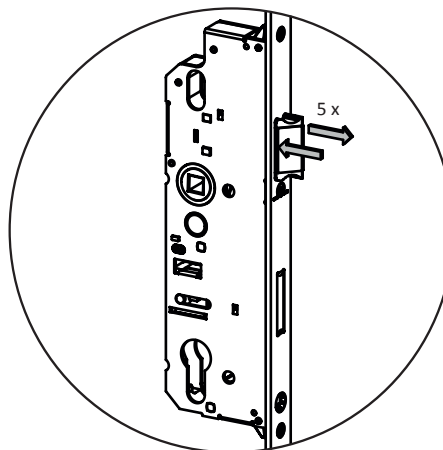
3.



4.



5.

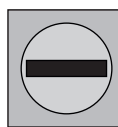


Functional test of the latch:

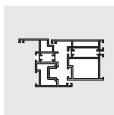
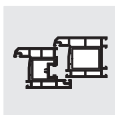
Press the latch into the gear box several times (approx. 5x).

The latch must be able to extend again independently with ease.

1.0 x 5.5





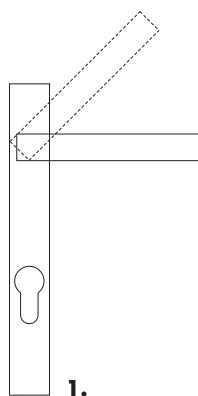
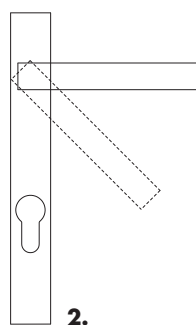


## Sales information

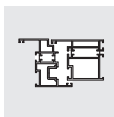
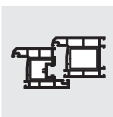
Description	Part number	Surface	Colour	Box quantity
door gear DB 25/92/8 OR/PZ 3RS	TGKT3000-10001_	Titan Silver	without	1 pc
	TGKT3000-10012_	Titan Silver	without	5 pcs
door gear DB 28/92/8 OR/PZ 3RS	TGKT3010-10001_	Titan Silver	without	1 pc
	TGKT3010-10012_	Titan Silver	without	5 pcs
door gear DB 35/92/8 OR/PZ 3RS	TGKT3030-10001_	Titan Silver	without	1 pc
	TGKT3030-10012_	Titan Silver	without	5 pcs
door gear DB 40/92/8 OR/PZ 3RS	TGKT3050-10001_	Titan Silver	without	1 pc
	TGKT3050-10012_	Titan Silver	without	5 pcs
door gear DB 45/92/8 OR/PZ 3RS	TGKT3060-10001_	Titan Silver	without	1 pc
	TGKT3060-10012_	Titan Silver	without	5 pcs
door gear DB 50/92/8 OR/PZ 3RS	TGKT3070-10001_	Titan Silver	without	1 pc
	TGKT3070-10012_	Titan Silver	without	5 pcs
door gear DB 55/92/8 OR/PZ 3RS	TGKT3080-10001_	Titan Silver	without	1 pc
	TGKT3080-10012_	Titan Silver	without	5 pcs

## Technical details




- Handle operation:
  1. Close
  2. Open

**1.****2.**



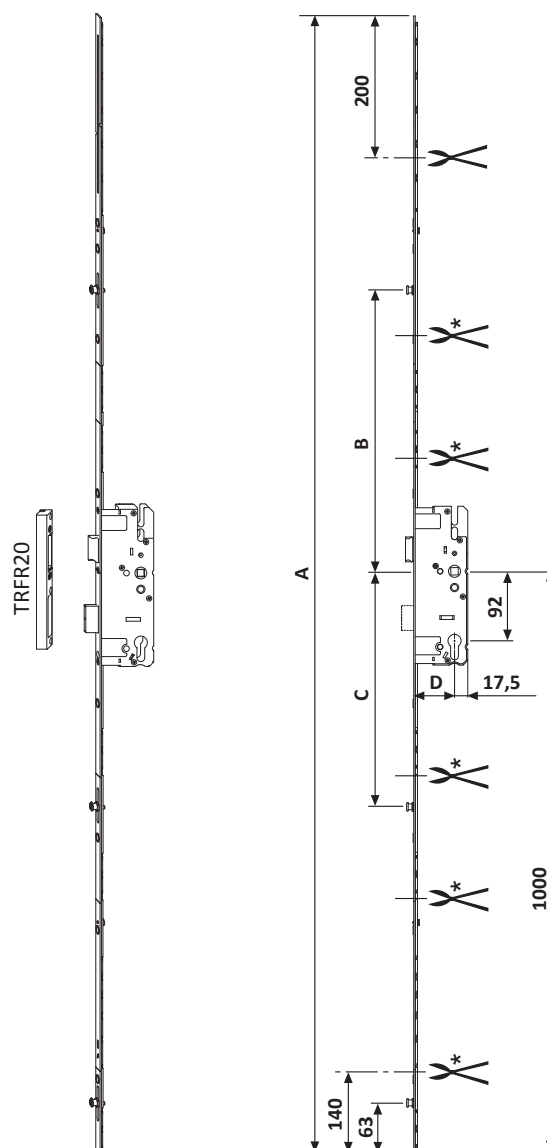


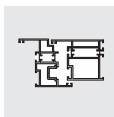
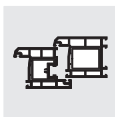
## Technical information

Part number	Description	Dimensions (mm)						
		A	B	C	D			
TGKT3100-...	door gear DB 25/92/8 MR/PZ 3RS	1960	460	310	25	5	8	8
TGKT3110-...	door gear DB 28/92/8 MR/PZ 3RS	1960	460	310	28	5	8	8
TGKT3120-...	door gear DB 30/92/8 MR/PZ 3RS	1960	460	310	30	5	8	8
TGKT3130-...	door gear DB 35/92/8 MR/PZ 3RS	1960	460	311	35	5	8	8
TGKT3150-...	door gear DB 40/92/8 MR/PZ 3RS	1960	460	311	40	5	8	8
TGKT3160-...	door gear DB 45/92/8 MR/PZ 3RS	1960	460	311	45	5	8	8
TGKT3170-...	door gear DB 50/92/8 MR/PZ 3RS	1960	460	311	50	5	8	8
TGKT3180-...	door gear DB 55/92/8 MR/PZ 3RS	1960	460	311	55	5	8	8



- Lever operated, with locking bolt and profile cylinder
- \* The door gears have a blind toothed system for alternative connecting component and handle height. The alternative cropping areas are clearly marked on the secondary sash.
- Dimension D = backset



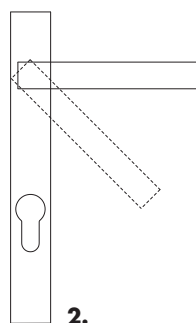
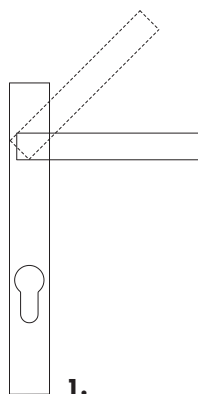


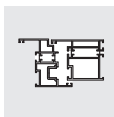
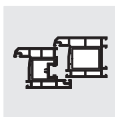
## Sales information

Description	Part number	Surface	Colour	Box quantity
door gear DB 25/92/8 MR/PZ 3RS	TGKT3100-10001_	Titan Silver	without	1 pc
	TGKT3100-10012_	Titan Silver	without	5 pcs
door gear DB 28/92/8 MR/PZ 3RS	TGKT3110-10001_	Titan Silver	without	1 pc
	TGKT3110-10012_	Titan Silver	without	5 pcs
door gear DB 30/92/8 MR/PZ 3RS	TGKT3120-10001_	Titan Silver	without	1 pc
	TGKT3120-10012_	Titan Silver	without	5 pcs
door gear DB 35/92/8 MR/PZ 3RS	TGKT3130-10001_	Titan Silver	without	1 pc
	TGKT3130-10012_	Titan Silver	without	5 pcs
	TGKT3130-10087_	Titan Silver	without	87
door gear DB 40/92/8 MR/PZ 3RS	TGKT3150-10001_	Titan Silver	without	1 pc
	TGKT3150-10012_	Titan Silver	without	5 pcs
	TGKT3150-10087_	Titan Silver	without	87
door gear DB 45/92/8 MR/PZ 3RS	TGKT3160-10001_	Titan Silver	without	1 pc
	TGKT3160-10012_	Titan Silver	without	5 pcs
	TGKT3160-10087_	Titan Silver	without	87
door gear DB 50/92/8 MR/PZ 3RS	TGKT3170-10001_	Titan Silver	without	1 pc
	TGKT3170-10012_	Titan Silver	without	5 pcs
door gear DB 55/92/8 MR/PZ 3RS	TGKT3180-10001_	Titan Silver	without	1 pc
	TGKT3180-10012_	Titan Silver	without	5 pcs




## Technical details

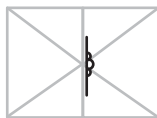
- Handle operation:
  1. Close
  2. Open



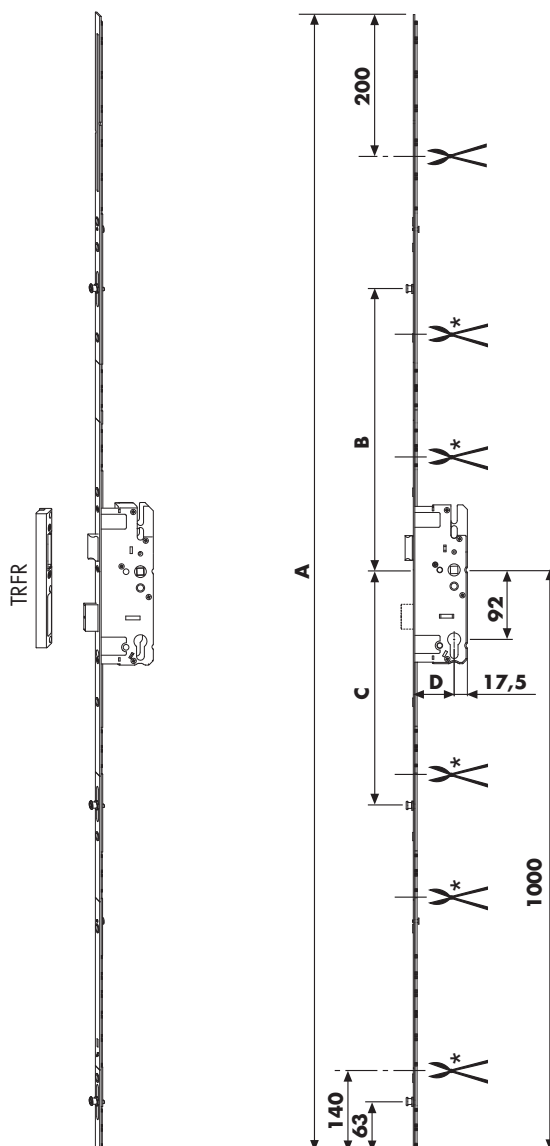


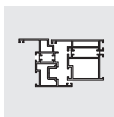
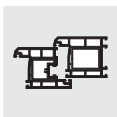
## Technical information

Part number	Description	Dimensions (mm)						
		A	B	C	D			
TGKT3451-...	door gear DB40+/92/8 MR/PZ 3RS rh.	1960	460	311	40	5	8	8
TGKT3452-...	door gear DB40+/92/8 MR/PZ 3RS lh.	1960	460	311	40	5	8	8



- Lever operated, with locking bolt and profile cylinder
- \* The door gears have a blind toothed system for alternative connecting component and handle height. The alternative cropping areas are clearly marked on the secondary sash.
- Dimension D = backset



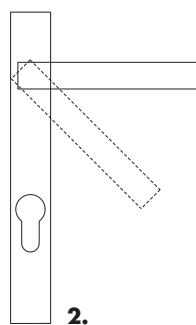
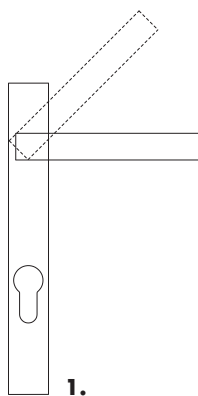


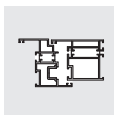
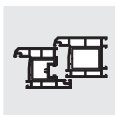
## Sales information

Description	Part number	Surface	Colour	Box quantity
door gear DB40+/92/8 MR/PZ 3RS rh.	TGKT3451-10001_	Titan Silver	without	1 pc
	TGKT3451-10012_	Titan Silver	without	5 pcs
door gear DB40+/92/8 MR/PZ 3RS lh.	TGKT3452-10001_	Titan Silver	without	1 pc
	TGKT3452-10012_	Titan Silver	without	5 pcs

## Technical details

- Handle operation:
  1. Close
  2. Open



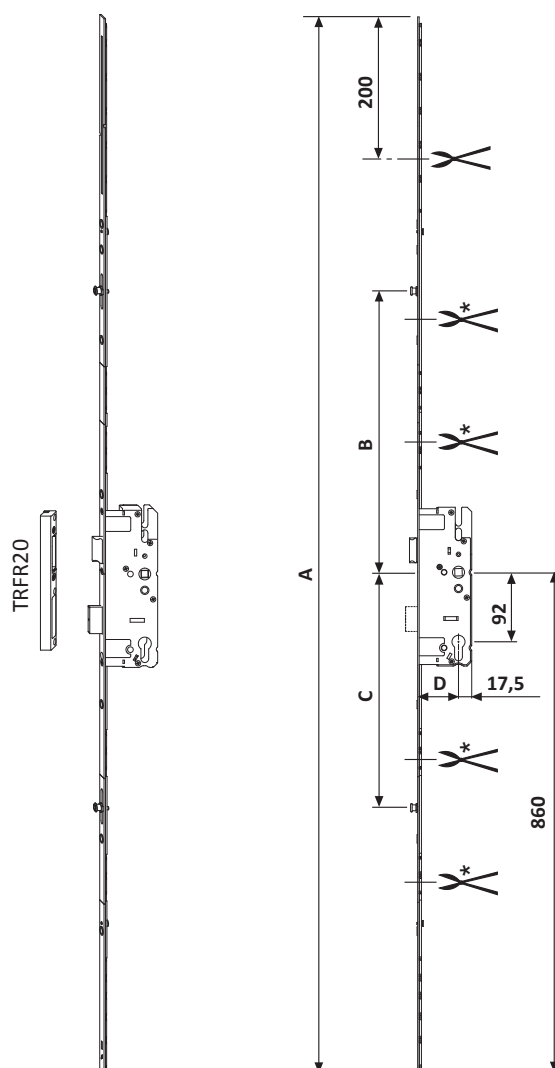


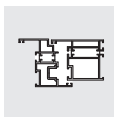
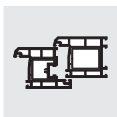
## Technical information

Part number	Description	Dimensions (mm)						
		A	B	C	D			
TGKT3410-...	door gr.DB/K 35/92/8 MR/PZ 2RS	1820	460	311	35	4	7	8
TGKT3440-...	door gr.DB/K 50/92/8 MR/PZ 2RS	1820	460	311	50	4	7	8



- Lever operated, with locking bolt and profile cylinder
- \* The door gears have a blind toothed system for alternative connecting component and handle height. The alternative cropping areas are clearly marked on the secondary sash.
- Dimension D = backset



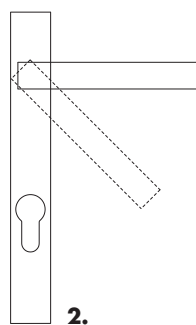
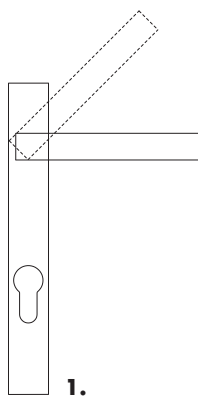


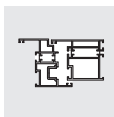
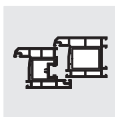
## Sales information

Description	Part number	Surface	Colour	Box quantity
door gr.DB/K 35/92/8 MR/PZ 2RS	TGKT3410-10001_	Titan Silver	without	1 pc
	TGKT3410-10012_	Titan Silver	without	5 pcs
door gr.DB/K 50/92/8 MR/PZ 2RS	TGKT3440-10001_	Titan Silver	without	1 pc
	TGKT3440-10012_	Titan Silver	without	5 pcs




## Technical details

- Handle operation:
  1. Close
  2. Open



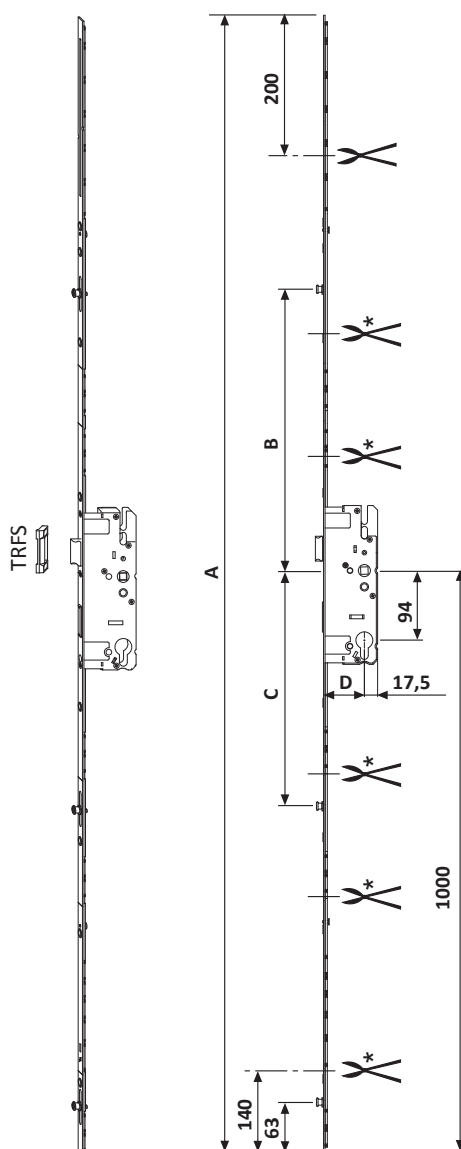


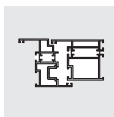
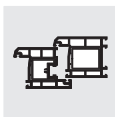
## Technical information

Part number	Description	Dimensions (mm)						
		A	B	C	D			
TGKT3250-...	door gear DB 40/94/8 OR/PZ 3RS	1960	460	311	40	4	8	8
TGKT3260-...	door gear DB 45/94/8 OR/PZ 3RS	1960	460	311	45	4	8	8
TGKT3270-...	door gear DB 50/94/8 OR/PZ 3RS	1960	460	311	50	4	8	8



- Lever operated, without locking bolt, with round cylinder
- Dimension D = backset
- \* The door gears have a blind toothed system for alternative connecting component and handle height. The alternative cropping areas are clearly marked on the secondary sash.



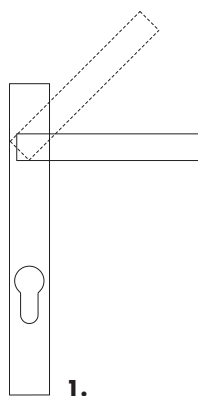
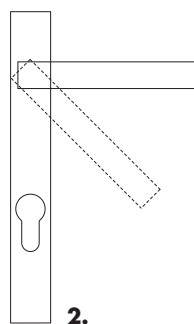


## Sales information

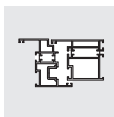
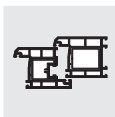
Description	Part number	Surface	Colour	Box quantity
door gear DB 40/94/8 OR/PZ 3RS	TGKT3250-10001_	Titan Silver	without	1 pc
	TGKT3250-10012_	Titan Silver	without	5 pcs
door gear DB 45/94/8 OR/PZ 3RS	TGKT3260-10001_	Titan Silver	without	1 pc
	TGKT3260-10012_	Titan Silver	without	5 pcs
door gear DB 50/94/8 OR/PZ 3RS	TGKT3270-10001_	Titan Silver	without	1 pc
	TGKT3270-10012_	Titan Silver	without	5 pcs

## Technical details




- Handle operation:
  1. Close
  2. Open

**1.****2.**



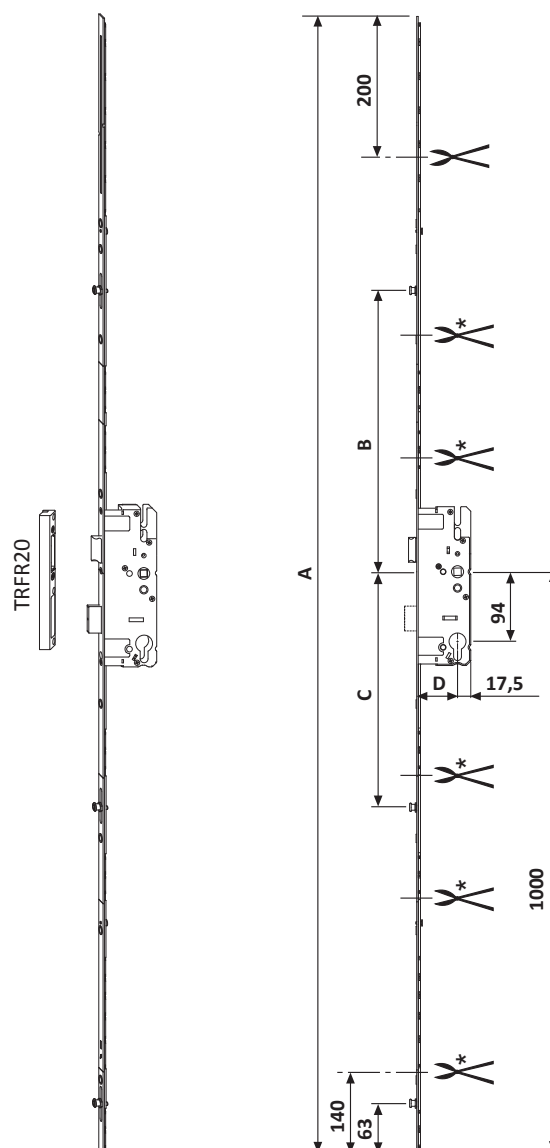


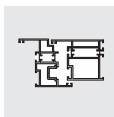
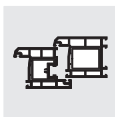
## Technical information

Part number	Description	Dimensions (mm)						
		A	B	C	D			
TGKT3330-...	door gear DB 25/94/8 MR/PZ 3RS	1960	460	311	35	5	8	8
TGKT3350-...	door gear DB 40/94/8 MR/PZ 3RS	1960	460	311	40	4	8	8
TGKT3360-...	door gear DB 45/94/8 MR/PZ 3RS	1960	460	311	45	4	8	8
TGKT3370-...	door gear DB 50/94/8 MR/PZ 3RS	1960	460	311	50	4	8	8
TGKT3380-...	door gear DB 55/94/8 MR/PZ 3RS	1960	460	311	55	4	8	8



- Lever operated, with locking bolt and round cylinder
- \* The door gears have a blind toothed system for alternative connecting component and handle height. The alternative cropping areas are clearly marked on the secondary sash.
- Dimension D = backset



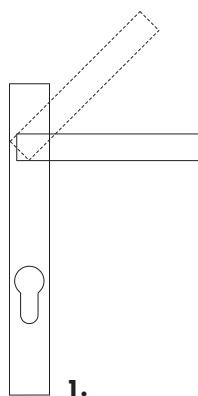
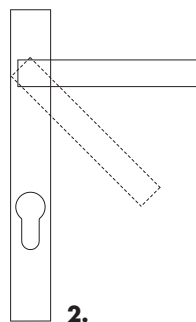


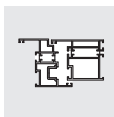
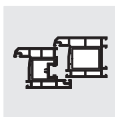
## Sales information

Description	Part number	Surface	Colour	Box quantity
door gear DB 25/94/8 MR/PZ 3RS	TGKT3330-10001_	Titan Silver	without	1 pc
	TGKT3330-10012_	Titan Silver	without	5 pcs
door gear DB 40/94/8 MR/PZ 3RS	TGKT3350-10001_	Titan Silver	without	1 pc
	TGKT3350-10012_	Titan Silver	without	5 pcs
door gear DB 45/94/8 MR/PZ 3RS	TGKT3360-10001_	Titan Silver	without	1 pc
	TGKT3360-10012_	Titan Silver	without	5 pcs
door gear DB 50/94/8 MR/PZ 3RS	TGKT3370-10001_	Titan Silver	without	1 pc
	TGKT3370-10012_	Titan Silver	without	5 pcs
door gear DB 55/94/8 MR/PZ 3RS	TGKT3380-10001_	Titan Silver	without	1 pc
	TGKT3380-10012_	Titan Silver	without	5 pcs




## Technical details

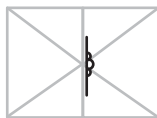
- Handle operation:
  1. Close
  2. Open

**1.****2.**

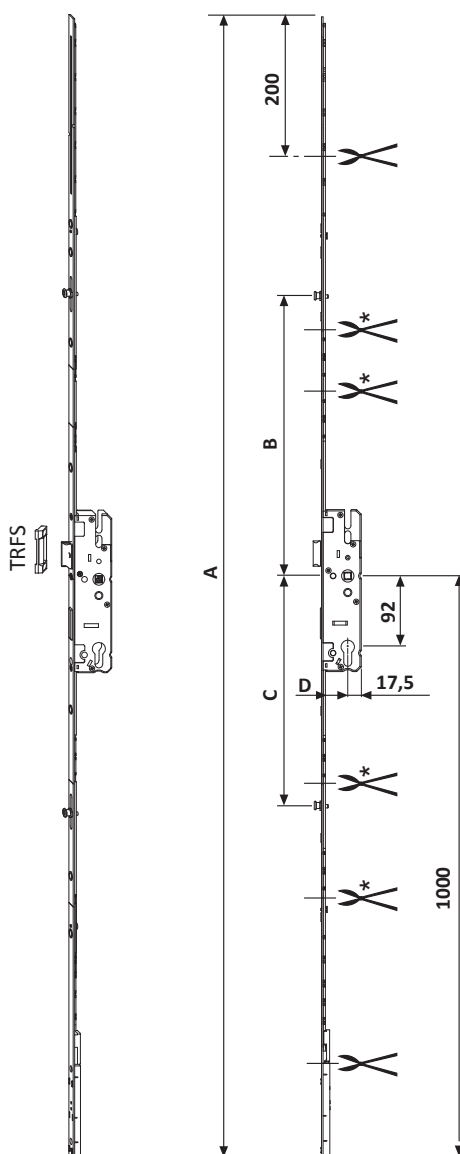


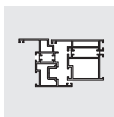
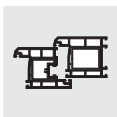
## Technical information

Part number	Description	Dimensions (mm)						
		A	B	C	D			
TGKT6350-...	door gr.DB/G 35/92/8 OR/PZ 2RS	1960	460	311	35	4	9	8
TGKT6500-...	door gr.DB/G 50/92/8 OR/PZ 2RS	1960	460	311	50	4	9	8



- Reverse-action
- Lever operated, without locking bolt, with profile cylinder
- \* The door gears have a blind toothed system for alternative connecting component and handle height. The alternative cropping areas are clearly marked on the secondary sash.
- Dimension D = backset



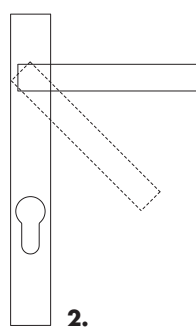
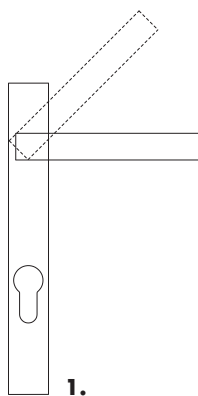


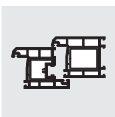
## Sales information

Description	Part number	Surface	Colour	Box quantity
door gr.DB/G 35/92/8 OR/PZ 2RS	TGKT6350-10001_	Titan Silver	without	1 pc
	TGKT6350-10012_	Titan Silver	without	5 pcs
door gr.DB/G 50/92/8 OR/PZ 2RS	TGKT6500-10001_	Titan Silver	without	1 pc
	TGKT6500-10012_	Titan Silver	without	5 pcs

## Technical details

- Handle operation:
  1. Close
  2. Open



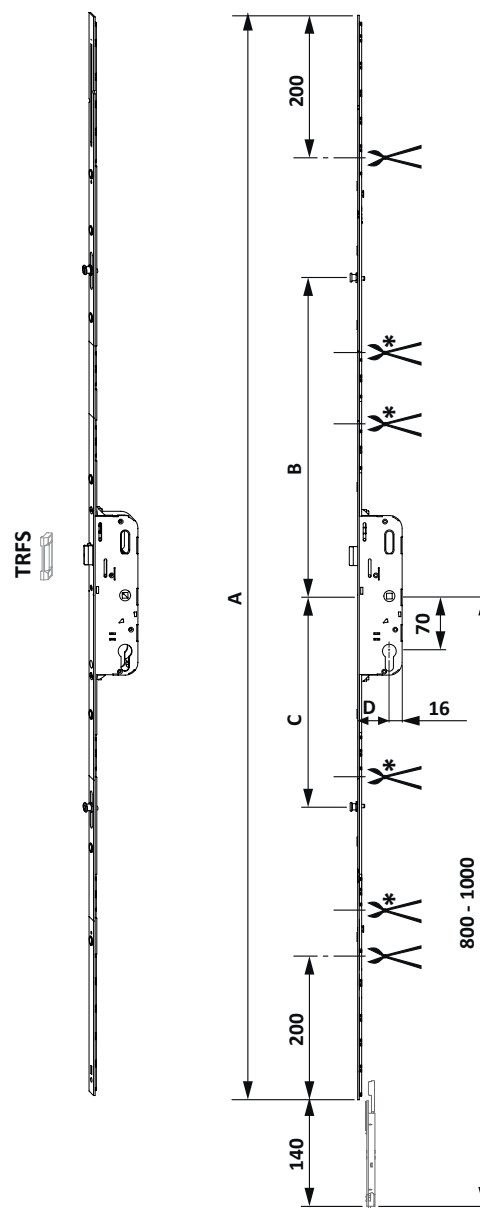


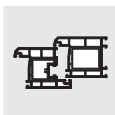
## Technical information

Part number	Description	Dimensions (mm)						
		A	B	C	D			
TGKT5250-...	door gr.DB/G 25/70/7 OR/PZ 2RS	1820	460	311	25	3	7	7
TGKT5280-...	door gr.DB/G 28/70/7 OR/PZ 2RS	1820	460	311	28	3	7	7
TGKT5350-...	door gr.DB/G 35/70/7 OR/PZ 2RS	1820	460	311	35	3	7	7
TGKT5400-...	door gr.DB/G 40/70/7 OR/PZ 2RS	1820	460	311	40	3	7	7



- Reverse-action
- Lever operated, without locking bolt, with profile cylinder
- \* The door gears have a blind toothed system for alternative connecting component and handle height. The alternative cropping areas are clearly marked on the secondary sash.
- Dimension D = backset



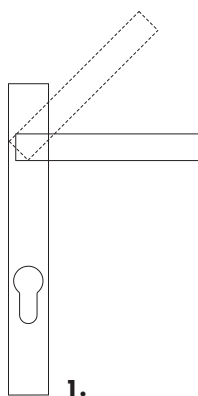
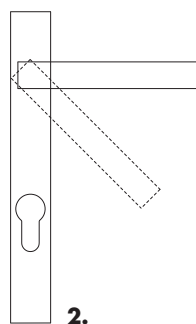


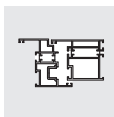
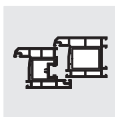
## Sales information

Description	Part number	Surface	Colour	Box quantity
door gr.DB/G 25/70/7 OR/PZ 2RS	TGKT5250-10001_	Titan Silver	without	1 pc
	TGKT5250-10012_	Titan Silver	without	5 pcs
door gr.DB/G 28/70/7 OR/PZ 2RS	TGKT5280-10001_	Titan Silver	without	1 pc
	TGKT5280-10012_	Titan Silver	without	5 pcs
door gr.DB/G 35/70/7 OR/PZ 2RS	TGKT5350-10001_	Titan Silver	without	1 pc
	TGKT5350-10012_	Titan Silver	without	5 pcs
door gr.DB/G 40/70/7 OR/PZ 2RS	TGKT5400-10001_	Titan Silver	without	1 pc
	TGKT5400-10012_	Titan Silver	without	5 pcs

## Technical details

- Handle operation:
  1. Close
  2. Open

**1.****2.**

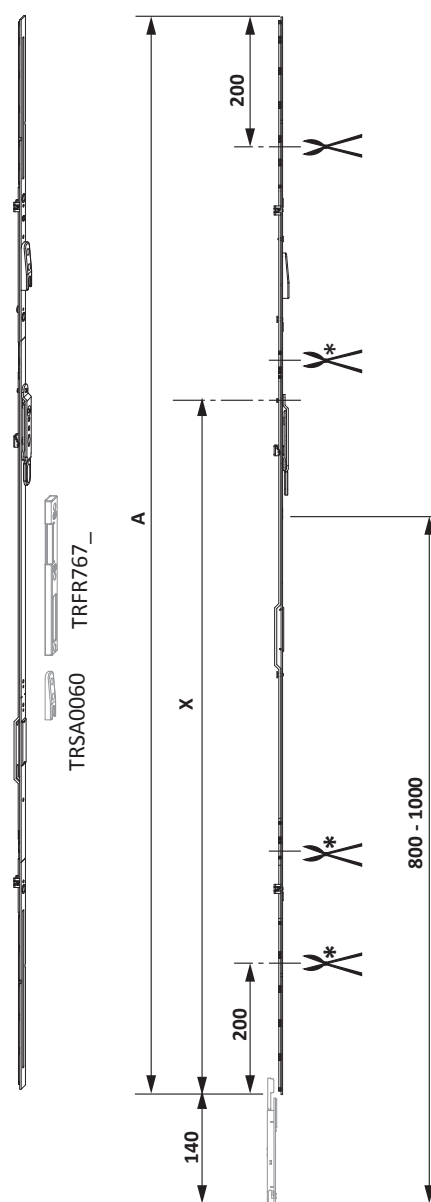


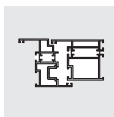
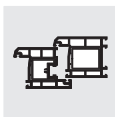
## Technical information

Part number	Description	Dimensions (mm)			
		A	X		
TGKT9000-...	sec.sash door gear SB-RS	1820	1140	0	7



- Use in slave sashes with opposing fitting groove
- \* The door gears have a blind toothed system for alternative connecting component and handle height. The alternative cropping areas are clearly marked on the secondary sash.
- Order striker S-RS A0767 additionally

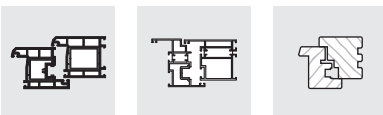




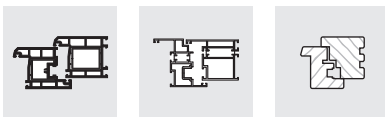
## Sales information

Description	Part number	Surface	Colour	Box quantity
sec.sash door gear SB-RS	TGKT9000-10001_	Titan Silver	without	1 pc
	TGKT9000-10012_	Titan Silver	without	5 pcs

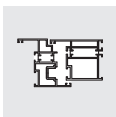
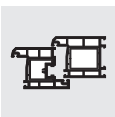




Description	Material	Page
Drill holes and routing gear 15		3.7 - 3
gear 15 AF/DF GK	TGKD3510, TGKD3520, TGKD3530, TGKD3540, TGKD3550, TGKD3560, TGKD3570, TGKD3580, TGKD3590, TGKD3600, TGKD3610	3.7 - 4
gear 15 AF/DF GM	TGMD3010, TGMD3020, TGMD3030, TGMD3040, TGMD3050, TGMD3060, TGMD3070, TGMD3080, TGMD3090, TGMD3100, TGMD3110	3.7 - 6
gear 15 DF	AGMD1150	3.7 - 8
Drill holes and routing gear DF 8		3.7 - 9
Application matrix: gear DF 8, handle height constant		3.7 - 10
Application matrix: gear DF 8, handle height centre/variable		3.7 - 12
gear DF 8	TGWD1010, TGWD1050, TGWD1020, TGWD1030, TGWD1040	3.7 - 14
gear DF 8	TGKD1060, TGKD1070, TGKD1080, TGKD1090, TGKD1100, TGKD1110	3.7 - 16
extension DF	TVNL1010, TVNL1060, TVNL1020, TVNL1030, TVNL1040, TVNL1050	3.7 - 18
Drill holes and routing gear DG -4,5		3.7 - 20
Application matrix: gear DG -4,5, handle height constant		3.7 - 21
gear DG -4,5	TGKG0020, TGKG0030, TGKG0040, TGKG0050, TGKG0060, TGKG0070, TGKG0080	3.7 - 23
Application matrix: gear DG -4,5, handle height centre/variable		3.7 - 25
gear DG -4,5	TGMG0010	3.7 - 27
locking bolt VSO/A DG	TESC0160, TESC0340, TESC0350, TESC0360, TESC0370, TESC0380	3.7 - 28
linkage DG	TZKG0110, TZKG0120, TZKG0130	3.7 - 30



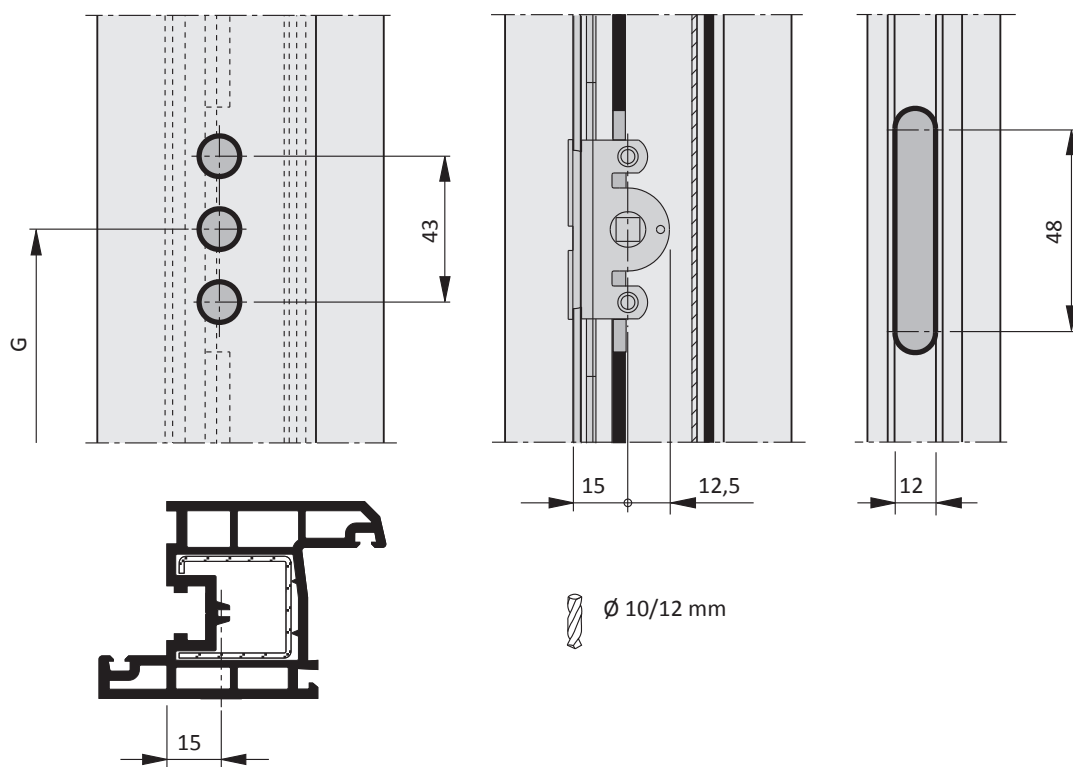
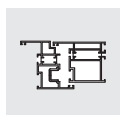
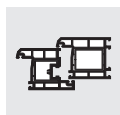
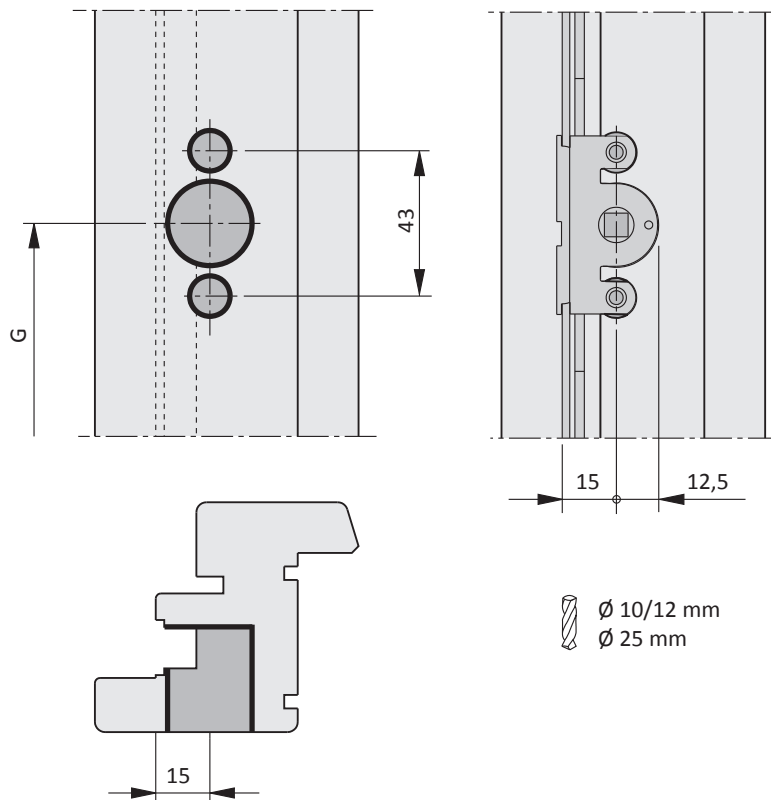
Description	Material	Page
Drill holes and routing gear DG 7		3.7 - 30
gear DG 7	TGKG1220, TGKG1030, TGKG1230, TGKG1040, TGKG1050, TGKG1240, TGKG1060, TGKG1070, TGKG1080, TGKG1090, TGKG1100, TGKG1110, TGKG1120, TGKG1130, TGKG1140, TGKG1150, TGKG1160, TGKG1170, TGKG1180, TGKG1190, TGKG1200, TGKG1210	3.7 - 32
Application matrix: gear 7 AF/DG, handle height constant		3.7 - 34
gear 7 AF/DG	TGKG1620, TGKG1630, TGKG1640, TGKG1650, TGKG1660, TGKG1670, TGKG1680, TGKG1690, TGKG1700, TGKG1710, TGKG1720, TGKG1730, TGKG1740, TGKG1750, TGKG1760, TGKG1770, TGKG1780, TGKG1790, TGKG1800, TGKG1810, TGKG1820	3.7 - 36



## 15 AF gear

Drill holes and routing  
Backset 15



**TITAN**

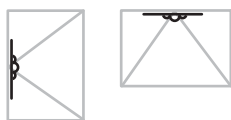


3.7

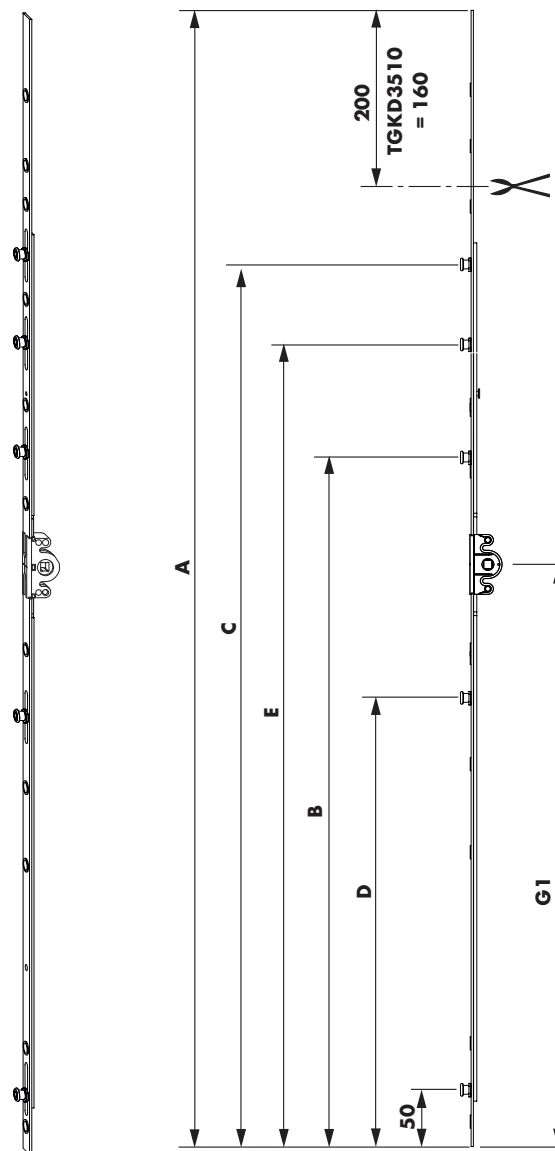


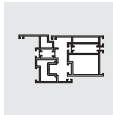
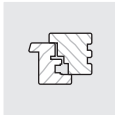
## Technical information

Part number	Description	FFH	Dimensions (mm)							
			G1	A	B	C	D	E		
TGKD3510-...	gear 15 AF/DF sz 30/G180 1RS	320 - 430	180	430	261	-	-	-	1	3
TGKD3520-...	gear 15 AF/DF sz 40/G180 2RS	431 - 600	180	600	336	-	-	-	2	6
TGKD3530-...	gear 15 AF/DF sz 60/G300 2RS	601 - 800	300	800	536	-	-	-	2	7
TGKD3540-...	gear 15 AF/DF sz 80/G400 2RS	801 - 1000	400	1000	736	-	-	-	2	7
TGKD3550-...	gear 15 AF/DF sz 100/G500 3RS	1001 - 1200	500	1200	936	580	-	-	3	9
TGKD3560-...	gear 15 AF/DF sz 120/G600 3RS	1201 - 1400	600	1400	1147	680	-	-	3	10
TGKD3570-...	gear 15 AF/DF sz 140/G700 4RS	1401 - 1600	700	1600	1347	936	466	-	4	10
TGKD3580-...	gear 15 AF/DF sz 160/G700 4RS	1601 - 1800	700	1800	1547	1136	466	-	4	11
TGKD3590-...	gear 15 AF/DF sz 180/G1000 4RS	1801 - 2000	1000	2000	1736	1266	666	-	4	13
TGKD3600-...	gear 15 AF/DF sz 200/G1000 4RS	2001 - 2200	1000	2200	1936	1266	666	-	4	14
TGKD3610-...	gear 15 AF/DF sz 220/G1000 5RS	2201 - 2400	1000	2400	2136	1701	666	1266	5	14



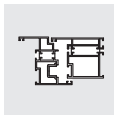
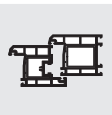
- For basic security
- Backset 15 mm
- Handle height constant







## Sales information

Description	Part number	Surface	Colour	Box quantity
gear 15 AF/DF sz 30/G180 1RS	TGKD3510-10001_	Titan Silver	without	1 pc
	TGKD3510-10004_	Titan Silver	without	25 pcs
gear 15 AF/DF sz 40/G180 2RS	TGKD3520-10001_	Titan Silver	without	1 pc
	TGKD3520-10004_	Titan Silver	without	25 pcs
gear 15 AF/DF sz 60/G300 2RS	TGKD3530-10001_	Titan Silver	without	1 pc
	TGKD3530-10004_	Titan Silver	without	25 pcs
gear 15 AF/DF sz 80/G400 2RS	TGKD3540-10001_	Titan Silver	without	1 pc
	TGKD3540-10004_	Titan Silver	without	25 pcs
gear 15 AF/DF sz 100/G500 3RS	TGKD3550-10001_	Titan Silver	without	1 pc
	TGKD3550-10004_	Titan Silver	without	25 pcs
gear 15 AF/DF sz 120/G600 3RS	TGKD3560-10001_	Titan Silver	without	1 pc
	TGKD3560-10004_	Titan Silver	without	25 pcs
gear 15 AF/DF sz 140/G700 4RS	TGKD3570-10001_	Titan Silver	without	1 pc
	TGKD3570-10004_	Titan Silver	without	25 pcs
gear 15 AF/DF sz 160/G700 4RS	TGKD3580-10001_	Titan Silver	without	1 pc
	TGKD3580-10002_	Titan Silver	without	10 pcs
gear 15 AF/DF sz 180/G1000 4RS	TGKD3590-10001_	Titan Silver	without	1 pc
	TGKD3590-10002_	Titan Silver	without	10 pcs
gear 15 AF/DF sz 200/G1000 4RS	TGKD3600-10001_	Titan Silver	without	1 pc
	TGKD3600-10002_	Titan Silver	without	10 pcs
gear 15 AF/DF sz 220/G1000 5RS	TGKD3610-10001_	Titan Silver	without	1 pc
	TGKD3610-10002_	Titan Silver	without	10 pcs

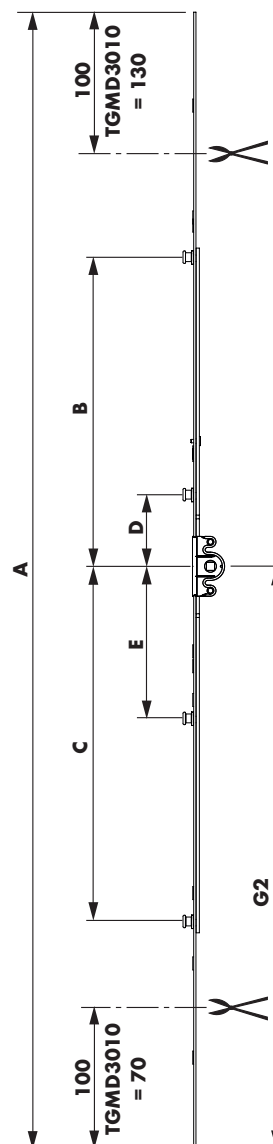


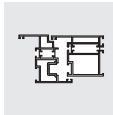
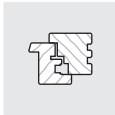
## Technical information

Part number	Description	FFH	G2	Dimensions (mm)						
				A	B	C	D	E		
TGMD3010-...	gear 15 AF/DF sz 20 1RS	230 - 430	145 - 215	430	76	-	-	-	1	3
TGMD3020-...	gear 15 AF/DF sz 40 2RS	431 - 600	215 - 300	600	84	100	-	-	2	4
TGMD3030-...	gear 15 AF/DF sz 60 2RS	601 - 800	300 - 400	800	184	200	-	-	2	6
TGMD3040-...	gear 15 AF/DF sz 80 2RS	801 - 1000	400 - 500	1000	284	300	-	-	2	7
TGMD3050-...	gear 15 AF/DF sz 100 3RS	1001 - 1200	500 - 600	1200	384	400	80	-	3	8
TGMD3060-...	gear 15 AF/DF sz 120 3RS	1201 - 1400	600 - 700	1400	484	500	80	-	3	8
TGMD3070-...	gear 15 AF/DF sz 140 3RS	1401 - 1600	700 - 800	1600	584	600	80	-	3	10
TGMD3080-...	gear 15 AF/DF sz 160 4RS	1601 - 1800	800 - 900	1800	684	700	80	300	4	10
TGMD3090-...	gear 15 AF/DF sz 180 4RS	1801 - 2000	900 - 1000	2000	784	800	296	300	4	11
TGMD3100-...	gear 15 AF/DF sz 200 4RS	2001 - 2200	1000 - 1100	2200	884	900	296	300	4	12
TGMD3110-...	gear 15 AF/DF sz 220 4RS	2201 - 2400	1100 - 1200	2400	984	1000	296	300	4	13



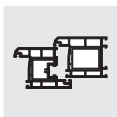
- For basic security
- Backset 15 mm
- Handle height centre/variable





## Sales information

Description	Part number	Surface	Colour	Box quantity
gear 15 AF/DF sz 20 1RS	TGMD3010-10001_	Titan Silver	without	1 pc
	TGMD3010-10004_	Titan Silver	without	25 pcs
gear 15 AF/DF sz 40 2RS	TGMD3020-10001_	Titan Silver	without	1 pc
	TGMD3020-10004_	Titan Silver	without	25 pcs
gear 15 AF/DF sz 60 2RS	TGMD3030-10001_	Titan Silver	without	1 pc
	TGMD3030-10004_	Titan Silver	without	25 pcs
gear 15 AF/DF sz 80 2RS	TGMD3040-10001_	Titan Silver	without	1 pc
	TGMD3040-10004_	Titan Silver	without	25 pcs
gear 15 AF/DF sz 100 3RS	TGMD3050-10001_	Titan Silver	without	1 pc
	TGMD3050-10004_	Titan Silver	without	25 pcs
gear 15 AF/DF sz 120 3RS	TGMD3060-10001_	Titan Silver	without	1 pc
	TGMD3060-10004_	Titan Silver	without	25 pcs
gear 15 AF/DF sz 140 3RS	TGMD3070-10001_	Titan Silver	without	1 pc
	TGMD3070-10004_	Titan Silver	without	25 pcs
gear 15 AF/DF sz 160 4RS	TGMD3080-10001_	Titan Silver	without	1 pc
	TGMD3080-10002_	Titan Silver	without	10 pcs
gear 15 AF/DF sz 180 4RS	TGMD3090-10001_	Titan Silver	without	1 pc
	TGMD3090-10002_	Titan Silver	without	10 pcs
gear 15 AF/DF sz 200 4RS	TGMD3100-10001_	Titan Silver	without	1 pc
	TGMD3100-10002_	Titan Silver	without	10 pcs
gear 15 AF/DF sz 220 4RS	TGMD3110-10001_	Titan Silver	without	1 pc
	TGMD3110-10002_	Titan Silver	without	10 pcs

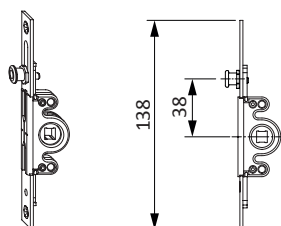


gear 15 DF

TITAN AF

## Technical information

Part number	Description		
AGMD1150-...	gear 15 DF 1RS	1	2

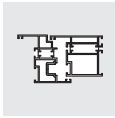


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## Sales information

Description	Part number	Surface	Colour	Box quantity
gear 15 DF 1RS	AGMD1150-10001_	Titan Silver	without	1 pc
	AGMD1150-10004_	Titan Silver	without	25 pcs

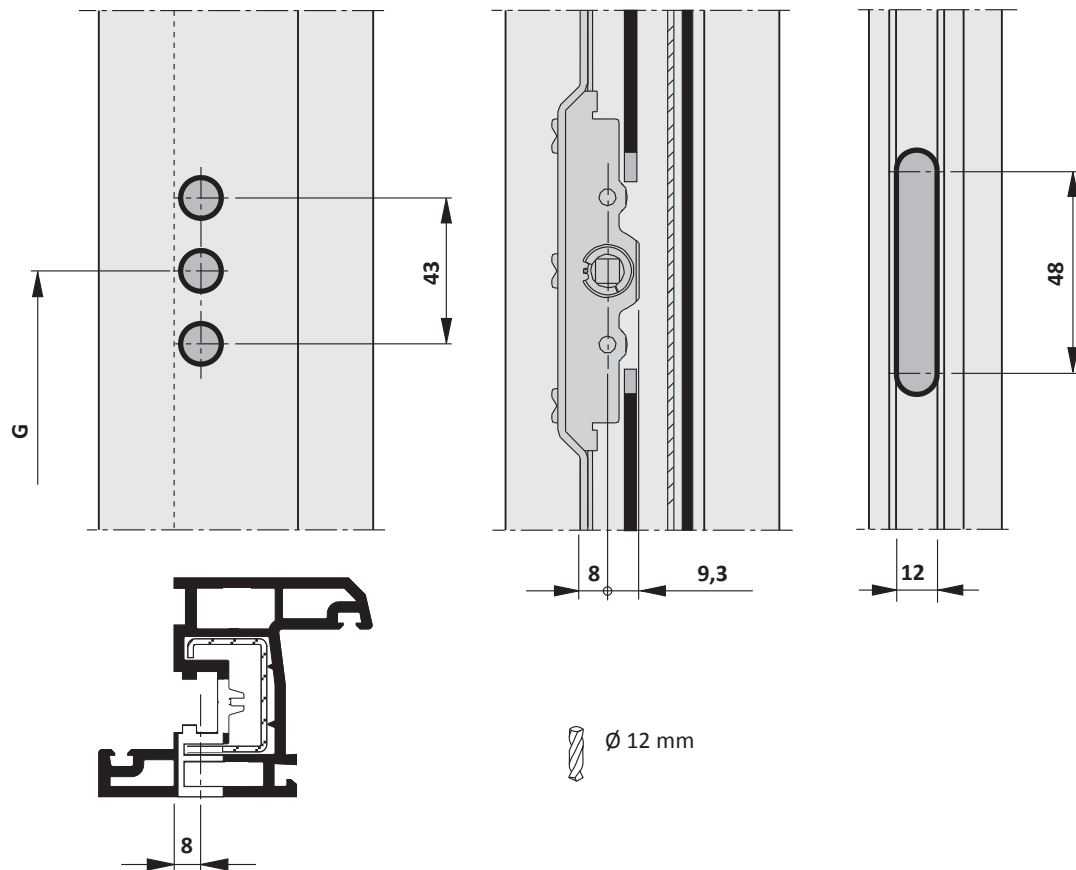


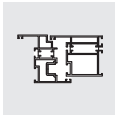
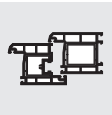


## DF 8 gear

Drill holes and routing  
Backset 8

**TITAN**



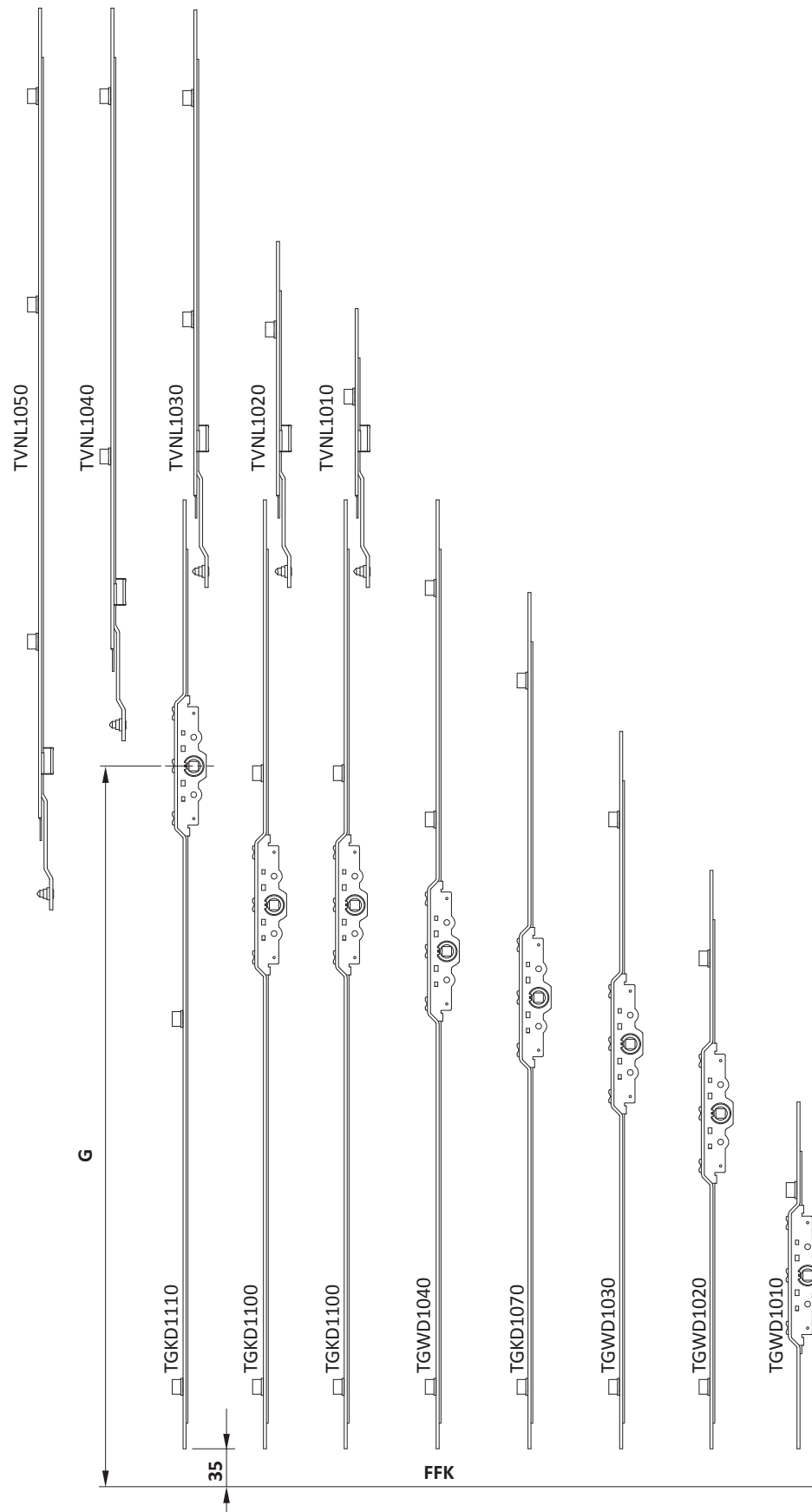


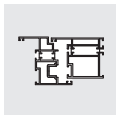
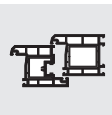
## Application matrix for gear DF 8

Handle height constant  
backset 8 mm

**TITAN**

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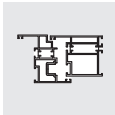
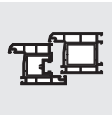


## Application matrix for gear DF 8

Handle height constant  
backset 8 mm

**TITAN**

Material number	Description	Material number	Description	FFH (mm)	G (mm)
<b>TGWD1010</b>	gear DF 8 sz 30/G165 1V			410 - 600	165
<b>TGWD1050</b>	gear DF 8 sz 50/G180 1V			360 - 600	180
<b>TGWD1020</b>	gear DF 8 sz 60/G300 2V			601 - 800	300
<b>TGWD1030</b>	gear DF 8 sz 80/G400 2V			801 - 1000	400
<b>TGKD1060</b>	gear DF 8 sz 100/G400 2V			1001 - 1200	400
<b>TGKD1070</b>	gear DF 8 sz 100/G500 2V			1001 - 1200	500
<b>TGKD1080</b>	gear DF 8 sz 120/G400 3V			1201 - 1400	400
<b>TGKD1090</b>	gear DF 8 sz 120/G500 3V			1201 - 1400	500
<b>TGWD1040</b>	gear DF 8 sz 120/G600 3V			1201 - 1400	600
<b>TGKD1100</b>	gear DF 8 sz 140/G700 2V	<b>TVNL1010</b>	extension DF sz 20 1V	1401 - 1600	700
<b>TGKD1100</b>	gear DF 8 sz 140/G700 2V	<b>TVNL1020</b>	extension DF sz 40 1V	1601 - 1800	700
<b>TGKD1110</b>	gear DF 8 sz 180/G1000 2V	<b>TVNL1030</b>	extension DF sz 60 2V	1801 - 2000	1000
<b>TGKD1110</b>	gear DF 8 sz 180/G1000 2V	<b>TVNL1040</b>	extension DF sz 80 2V	2001 - 2200	1000
<b>TGKD1110</b>	gear DF 8 sz 180/G1000 2V	<b>TVNL1050</b>	extension DF sz 100 3V	2201 - 2400	1000

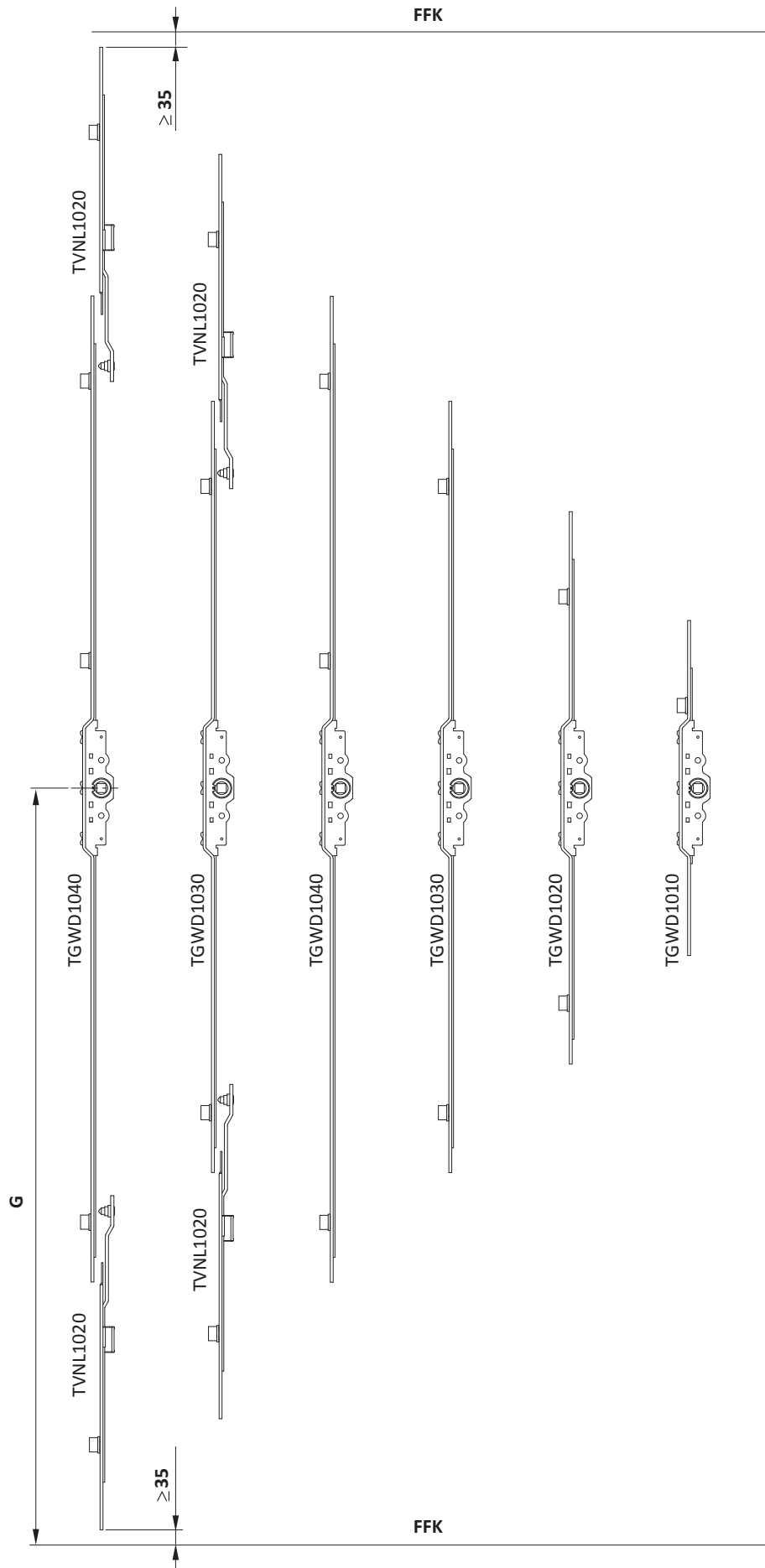


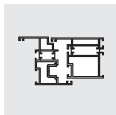
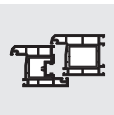
## Application matrix for gear DF 8

Handle height centre/variable  
backset 8 mm

**TITAN**

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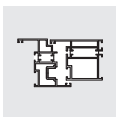
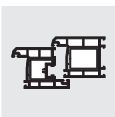


## Application matrix for gear DF 8

Handle height centre/variable  
backset 8 mm

**TITAN**

Material number	Description	Material number	Description	FFH (mm)	G (mm)
<b>TGWD1010</b>	gear DF 8 sz 30/G165 1V			330 - 600	165 - 300
<b>TGWD1020</b>	gear DF 8 sz 60/G300 2V			601 - 800	300 - 400
<b>TGWD1030</b>	gear DF 8 sz 80/G400 2V			801 - 1200	400 - 600
<b>TGWD1040</b>	gear DF 8 sz 120/G600 3V			1201 - 1600	600 - 800
<b>TGWD1030</b>	gear DF 8 sz 80/G400 2V	<b>TVNL1020</b>	extension DF sz 40 1V	1601 - 2000	800 - 1000
<b>TGWD1040</b>	gear DF 8 sz 120/G600 3V	<b>TVNL1020</b>	extension DF sz 40 1V	2001 - 2400	1000 - 1200

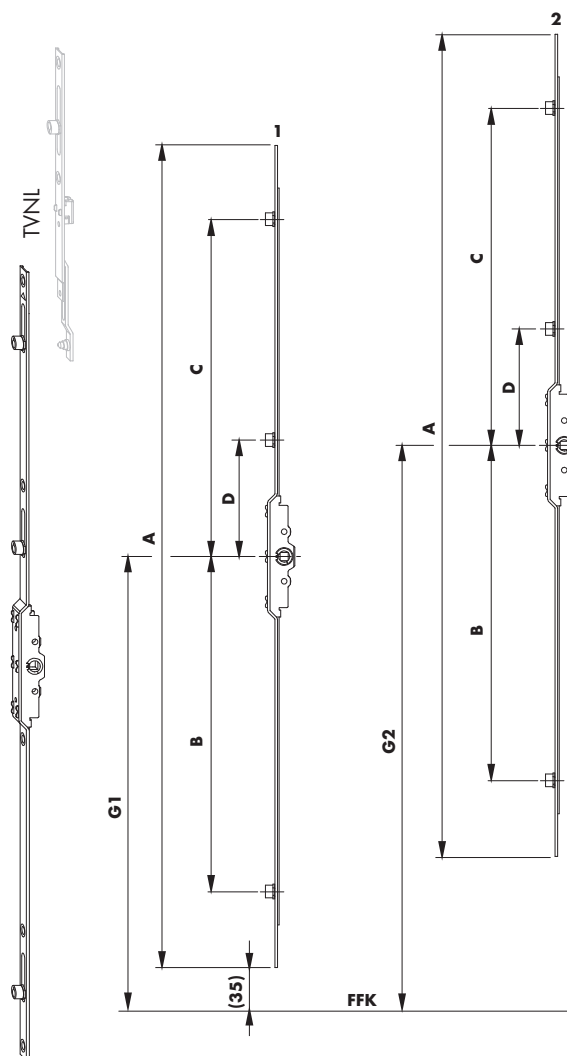


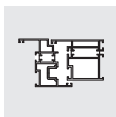
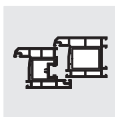
## Technical information

Part number	Description	FFH GK	FFH GM	Dimensions (mm)								
				G1	G2	A	B	C	D			
TGWD1010-...	gear DF 8 sz 30/G165 1V	280 - 360	280 - 360	165	165 - 180	260	-	66	-	1	3	
TGWD1050-...	gear DF 8 sz 30/G180 2V	361 - 600	361 - 600	180	180 - 300	340	124	106	-	2	4	
TGWD1020-...	gear DF 8 sz 60/G300 2V	601 - 800	601 - 800	300	300 - 400	530	199	201	-	2	5	
TGWD1030-...	gear DF 8 sz 80/G400 2V	801 - 1000	801 - 2000	400	400 - 1000	730	299	301	-	2	6	
TGWD1040-...	gear DF 8 sz 120/G600 3V	1201 - 1400	1201 - 2400	600	600 - 1200	1130	499	501	101	3	8	



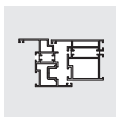
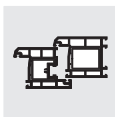
- For basic security
- Suitable for product range TITAN iP and TITAN AF
- Optional handle position
- Installation location 1: handle position constant  
Installation location 2: handle position central







## Sales information

Description	Part number	Surface	Colour	Box quantity
gear DF 8 sz 30/G165 1V	TGWD1010-10001_	Titan Silver	without	1 pc
	TGWD1010-10004_	Titan Silver	without	25 pcs
gear DF 8 sz 30/G180 2V	TGWD1050-10001_	Titan Silver	without	1 pc
	TGWD1050-10004_	Titan Silver	without	25 pcs
gear DF 8 sz 60/G300 2V	TGWD1020-10001_	Titan Silver	without	1 pc
	TGWD1020-10004_	Titan Silver	without	25 pcs
gear DF 8 sz 80/G400 2V	TGWD1030-10001_	Titan Silver	without	1 pc
	TGWD1030-10004_	Titan Silver	without	25 pcs
gear DF 8 sz 120/G600 3V	TGWD1040-10001_	Titan Silver	without	1 pc
	TGWD1040-10004_	Titan Silver	without	25 pcs

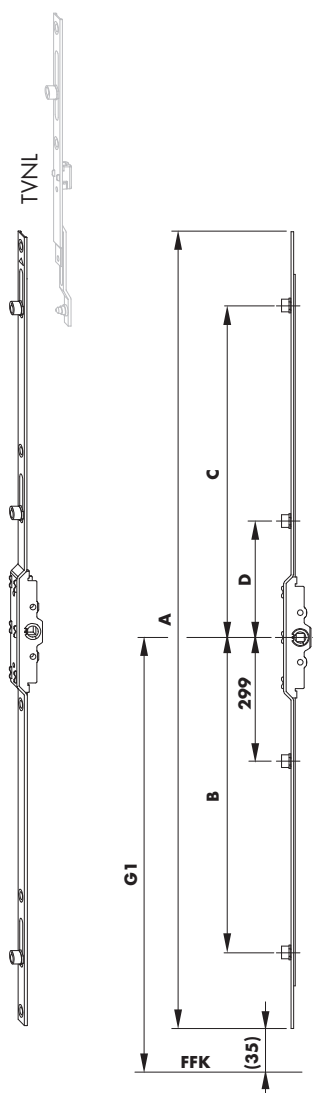


## Technical information

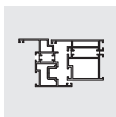
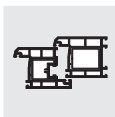
Part number	Description	FFH	Dimensions (mm)						
			G1	A	B	C	D		
TGKD1060-...	gear DF 8 sz 100/G400 2V	1001 - 1200	400	930	299	501	-	2	7
TGKD1070-...	gear DF 8 sz 100/G500 2V	1001 - 1200	500	930	399	401	-	2	8
TGKD1080-...	gear DF 8 sz 120/G400 3V	1201 - 1400	400	1130	299	701	301	3	9
TGKD1090-...	gear DF 8 sz 120/G500 3V	1201 - 1400	500	1130	399	601	201	3	9
TGKD1100-...	gear DF 8 sz 140/G700 2V	1401 - 1800	700	1130	599	101	-	2	8
TGKD1110-...	gear DF 8 sz 180/G1000 2V	1801 - 2400	1000	1130	899	-	-	2	8



- For basic security
- Suitable for product range TITAN iP and TITAN AF
- Handle height constant

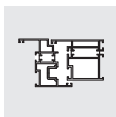
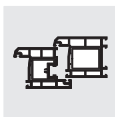








## Sales information

Description	Part number	Surface	Colour	Box quantity
gear DF 8 sz 100/G400 2V	TGKD1060-10001_	Titan Silver	without	1 pc
	TGKD1060-10004_	Titan Silver	without	25 pcs
gear DF 8 sz 100/G500 2V	TGKD1070-10001_	Titan Silver	without	1 pc
	TGKD1070-10004_	Titan Silver	without	25 pcs
gear DF 8 sz 120/G400 3V	TGKD1080-10001_	Titan Silver	without	1 pc
	TGKD1080-10004_	Titan Silver	without	25 pcs
gear DF 8 sz 120/G500 3V	TGKD1090-10001_	Titan Silver	without	1 pc
	TGKD1090-10004_	Titan Silver	without	25 pcs
gear DF 8 sz 140/G700 2V	TGKD1100-10001_	Titan Silver	without	1 pc
	TGKD1100-10004_	Titan Silver	without	25 pcs
gear DF 8 sz 180/G1000 2V	TGKD1110-10001_	Titan Silver	without	1 pc
	TGKD1110-10004_	Titan Silver	without	25 pcs

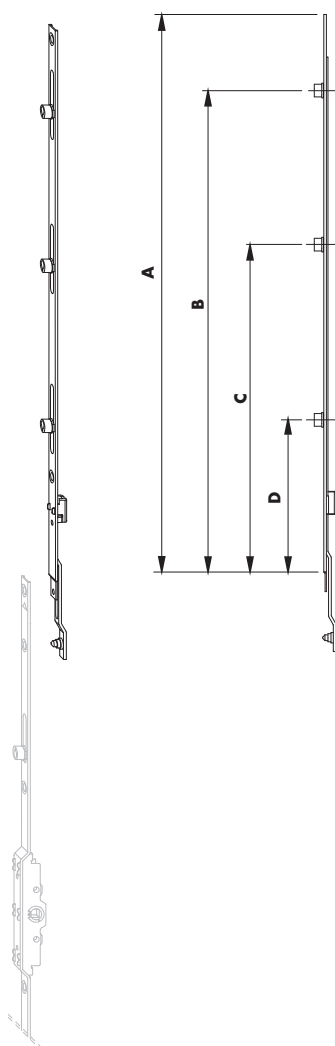


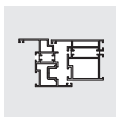
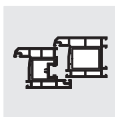
## Technical information

Part number	Description	Dimensions (mm)					
		A	B	C	D		
TVNL1010-...	extension DF sz 20 1V	198	134	-	-	1	2
TVNL1060-...	extension DF S-ES sz 20 1S	198	134	-	-	1	2
TVNL1020-...	extension DF sz 40 1V	398	334	-	-	1	3
TVNL1030-...	extension DF sz 60 2V	598	534	134	-	2	5
TVNL1040-...	extension DF sz 80 2V	798	734	134	-	2	5
TVNL1050-...	extension DF sz 100 3V	998	934	534	134	3	8



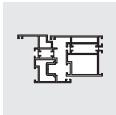
- For basic security
- Suitable for product range TITAN iP and TITAN AF





## Sales information

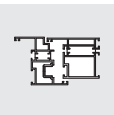
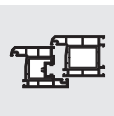
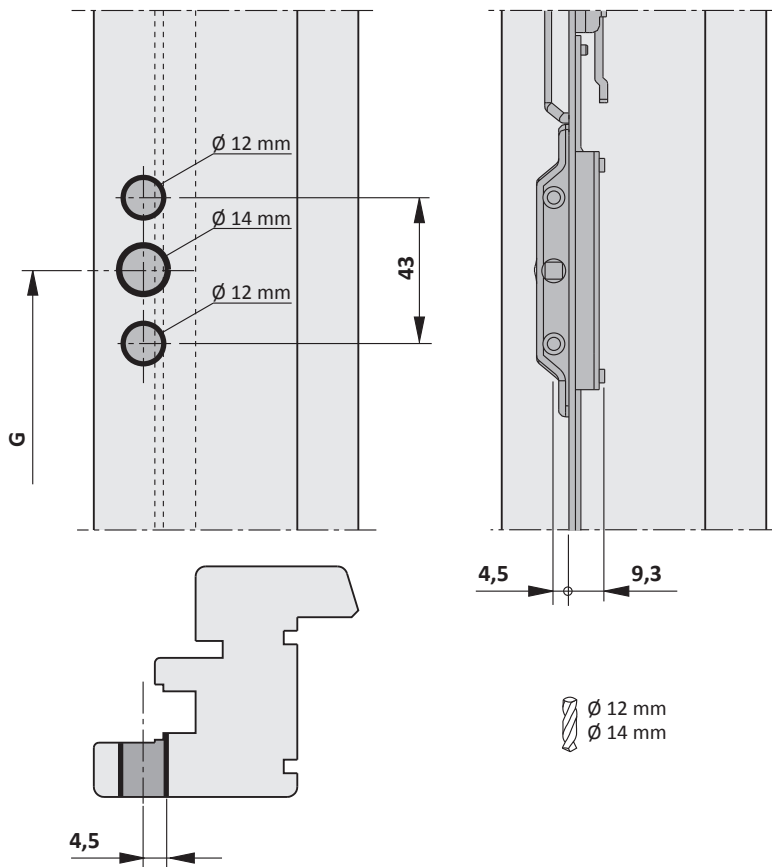
Description	Part number	Surface	Colour	Box quantity
extension DF sz 20 1V	TVNL1010-10001_	Titan Silver	without	1 pc
	TVNL1010-10004_	Titan Silver	without	25 pcs
extension DF S-ES sz 20 1S	TVNL1060-10001_	Titan Silver	without	1 pc
	TVNL1060-10004_	Titan Silver	without	25 pcs
extension DF sz 40 1V	TVNL1020-10001_	Titan Silver	without	1 pc
	TVNL1020-10004_	Titan Silver	without	25 pcs
extension DF sz 60 2V	TVNL1030-10001_	Titan Silver	without	1 pc
	TVNL1030-10004_	Titan Silver	without	25 pcs
extension DF sz 80 2V	TVNL1040-10001_	Titan Silver	without	1 pc
	TVNL1040-10004_	Titan Silver	without	25 pcs
extension DF sz 100 3V	TVNL1050-10001_	Titan Silver	without	1 pc
	TVNL1050-10004_	Titan Silver	without	25 pcs



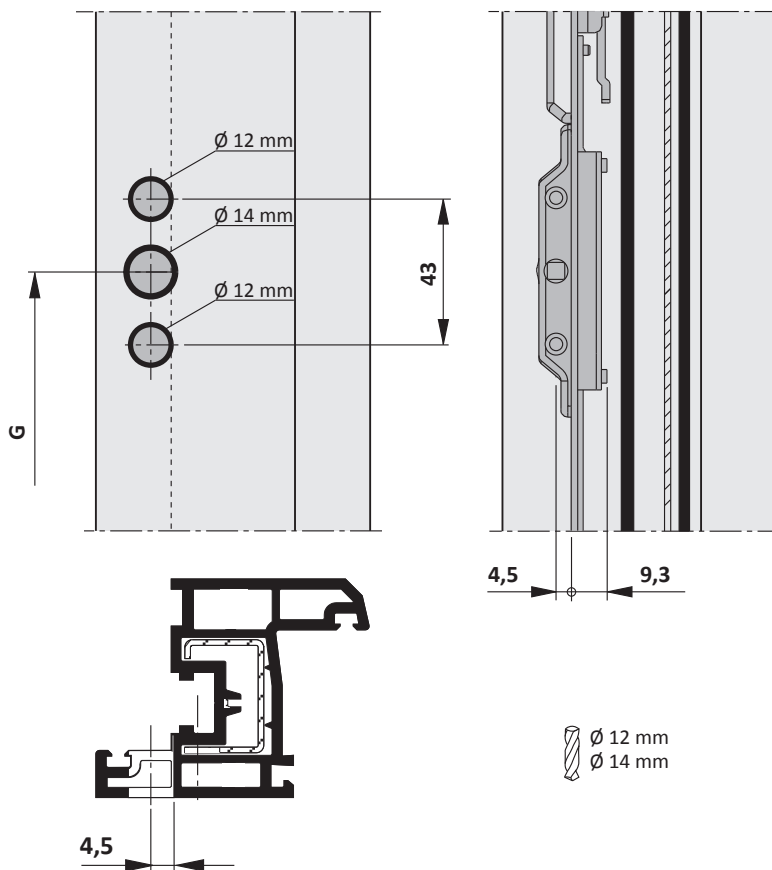
DG -4,5 gear

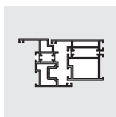
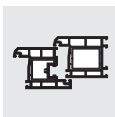
Drill holes and routing  
Backset -4,5

TITAN



3.7

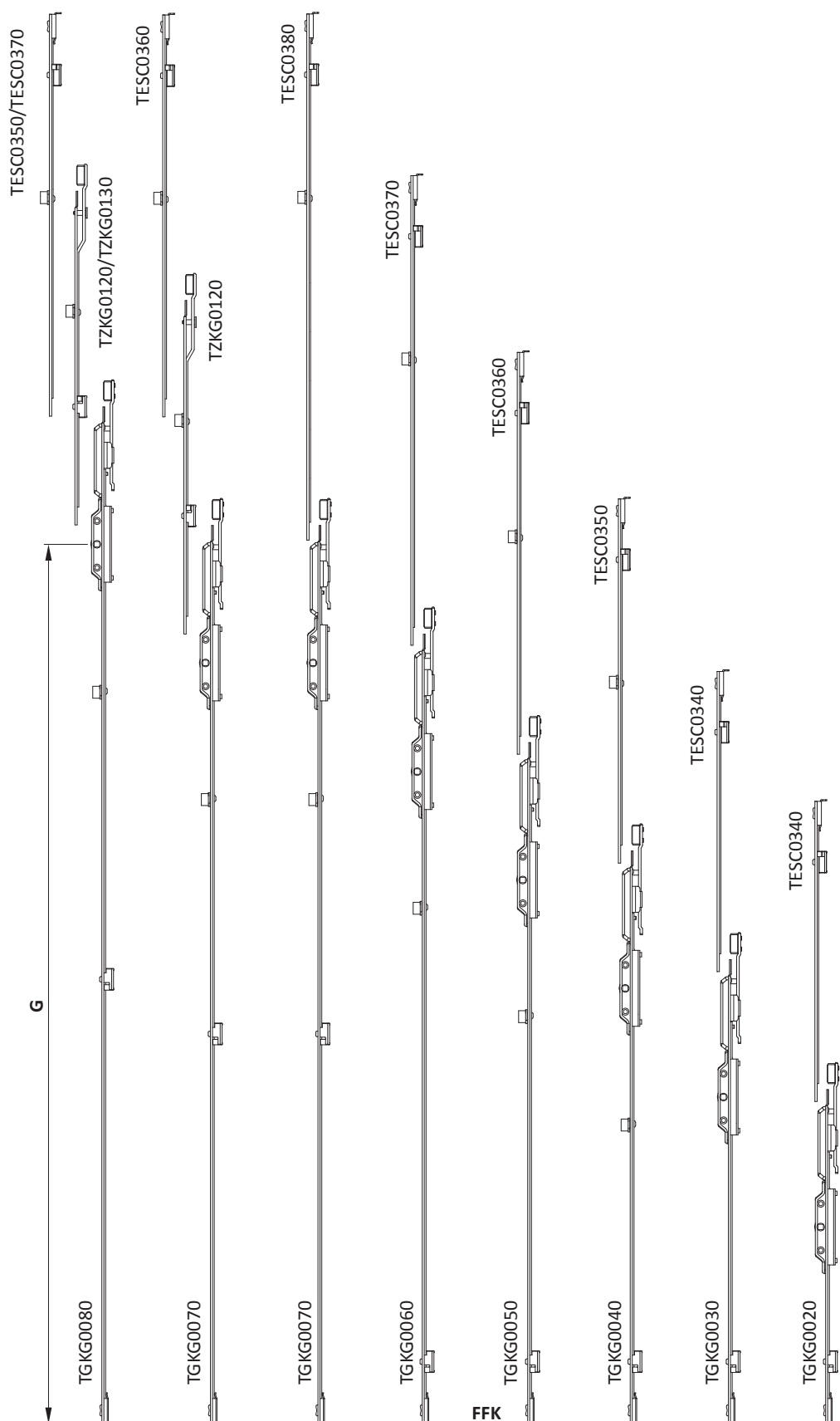


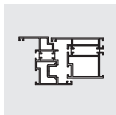
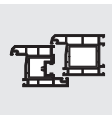


## Application matrix for gear DG -4,5

Handle height constant  
backset -4,5 mm

**TITAN**



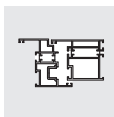
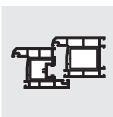


## Application matrix for gear DG -4,5



Handle height constant  
backset -4,5 mm

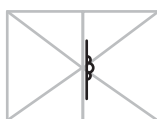
**TITAN**

Material number	Description	Material number	Description	Material number	Description	FFH (mm)	G (mm)
<b>TGKG0020</b>	gear DG -4,5 sz 50/G180	<b>TESC0340</b>	locking bolt VSO/A DG sz 2			480 - 600	180
<b>TGKG0030</b>	gear DG -4,5 sz 60/G300	<b>TESC0340</b>	locking bolt VSO/A DG sz 2			601 - 800	300
<b>TGKG0040</b>	gear DG -4,5 sz 80/G400 1V	<b>TESC0350</b>	locking bolt VSO/A DG sz 3 1V			801 - 1000	400
<b>TGKG0050</b>	gear DG -4,5 sz 100/G500 1V	<b>TESC0360</b>	locking bolt VSO/A DG sz 4 1V			1001 - 1200	500
<b>TGKG0060</b>	gear DG -4,5 sz 120/G600 1V	<b>TESC0370</b>	locking bolt VSO/A DG sz 5 1V			1201 - 1400	600
<b>TGKG0070</b>	gear DG -4,5 sz 140/G700 1V	<b>TESC0380</b>	locking bolt VSO/A DG sz 6 1V			1401 - 1600	700
<b>TGKG0070</b>	gear DG -4,5 sz 140/G700 1V	<b>TESC0360</b>	locking bolt VSO/A DG sz 4 1V	<b>TZKG0120</b>	linkage DG sz 2 1V	1601 - 1800	700
<b>TGKG0080</b>	gear DG -4,5 sz 180/G1000 1V	<b>TESC0350</b>	locking bolt VSO/A DG sz 3 1V	<b>TZKG0120</b>	linkage DG sz 2 1V	1801 - 2000	1000
<b>TGKG0080</b>	gear DG -4,5 sz 180/G1000 1V	<b>TESC0370</b>	locking bolt VSO/A DG sz 5 1V	<b>TZKG0120</b>	linkage DG sz 2 1V	2001 - 2200	1000
<b>TGKG0080</b>	gear DG -4,5 sz 180/G1000 1V	<b>TESC0370</b>	locking bolt VSO/A DG sz 5 1V	<b>TZKG0130</b>	linkage DG sz 3 1V	2201 - 2400	1000



## Technical information

Part number	Description	FFH	Dimensions (mm)				
			G1	A	B		
TGKG0020-...	gear DG -4,5 sz 50/G180	480 - 680	180	292	-	0	3
TGKG0030-...	gear DG -4,5 sz 60/G300	601 - 800	300	412	-	0	3
TGKG0040-...	gear DG -4,5 sz 80/G400 1V	801 - 1000	400	512	126	1	4
TGKG0050-...	gear DG -4,5 sz 100/G500 1V	1001 - 1200	500	612	126	1	5
TGKG0060-...	gear DG -4,5 sz 120/G600 1V	1201 - 1400	600	712	126	1	5
TGKG0070-...	gear DG -4,5 sz 140/G700 1V	1401 - 1800	700	812	126	1	6
TGKG0080-...	gear DG -4,5 sz 180/G1000 1V	1801 - 2400	1000	1112	326	1	7

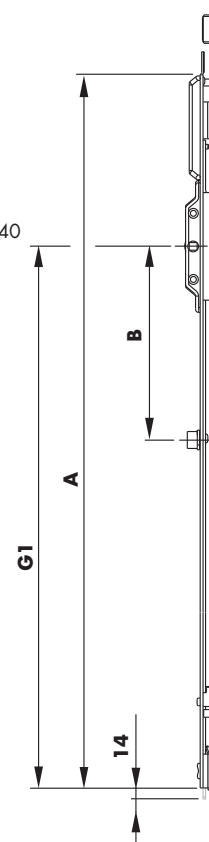


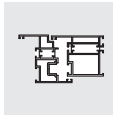
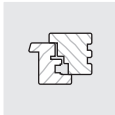
- Backset -4,5 mm
- For basic security
- Reverse-action
- Handle height constant

FRZV

ZHVK0040

FRZV

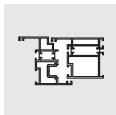
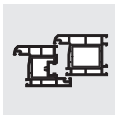




## Sales information

Description	Part number	Surface	Colour	Box quantity
gear DG -4,5 sz 50/G180	TGKG0020-10001_	Titan Silver	without	1 pc
	TGKG0020-10004_	Titan Silver	without	25 pcs
gear DG -4,5 sz 60/G300	TGKG0030-10001_	Titan Silver	without	1 pc
	TGKG0030-10004_	Titan Silver	without	25 pcs
gear DG -4,5 sz 80/G400 1V	TGKG0040-10001_	Titan Silver	without	1 pc
	TGKG0040-10004_	Titan Silver	without	25 pcs
gear DG -4,5 sz 100/G500 1V	TGKG0050-10001_	Titan Silver	without	1 pc
	TGKG0050-10004_	Titan Silver	without	25 pcs
gear DG -4,5 sz 120/G600 1V	TGKG0060-10001_	Titan Silver	without	1 pc
	TGKG0060-10004_	Titan Silver	without	25 pcs
gear DG -4,5 sz 140/G700 1V	TGKG0070-10004_	Titan Silver	without	25 pcs
gear DG -4,5 sz 180/G1000 1V	TGKG0080-10001_	Titan Silver	without	1 pc
	TGKG0080-10007_	Titan Silver	without	250 pcs

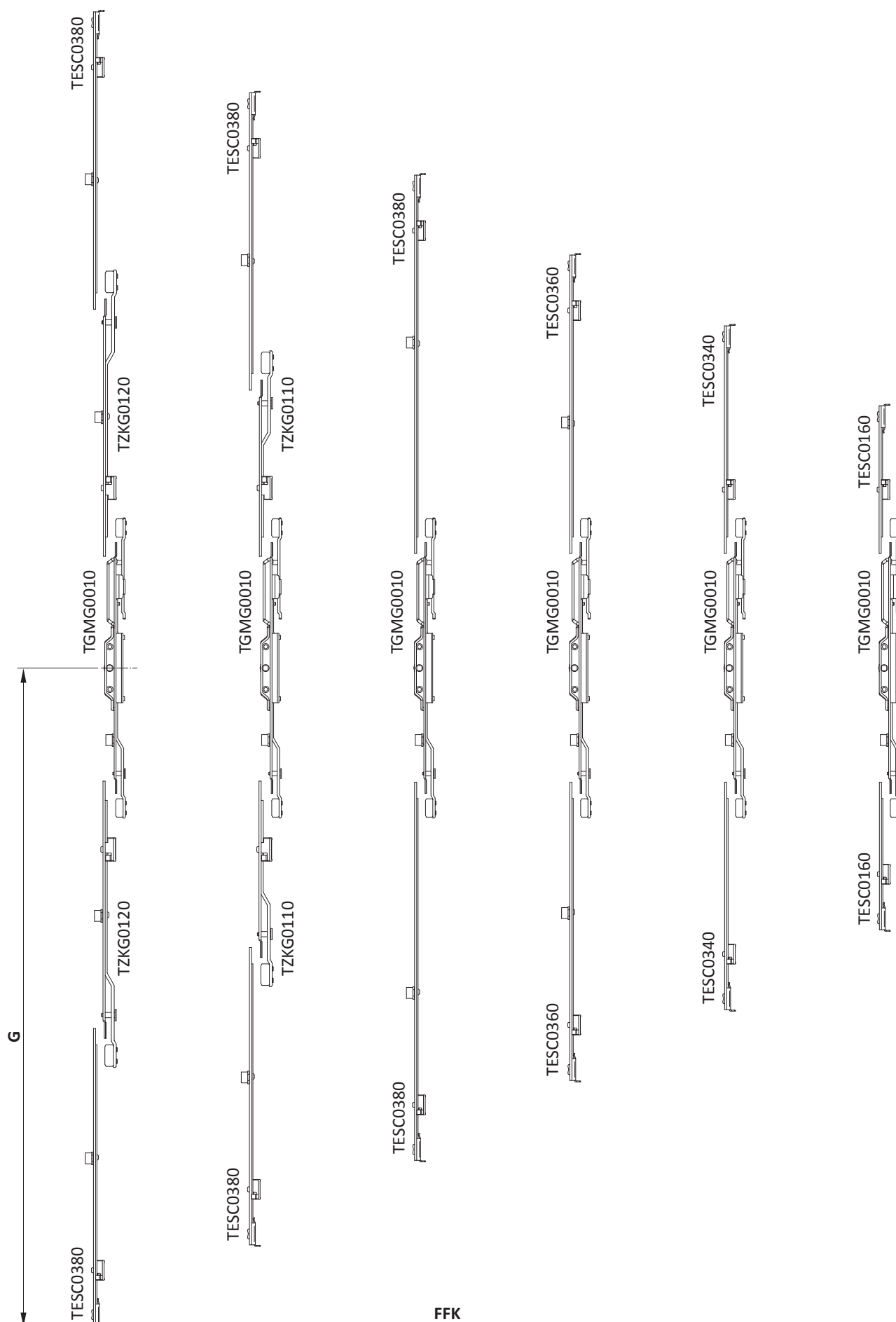


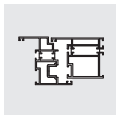
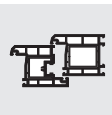


## Application matrix for gear DG -4,5

Handle height centre/variable  
backset -4,5 mm

**TITAN**



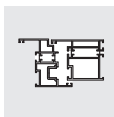
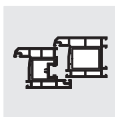


## Application matrix for gear DG -4,5

Handle height centre/variable  
backset -4,5 mm

**TITAN**

Material number	Description	Material number	Description	Material number	Description	FFH (mm)	G (mm)
<b>TGMG0010</b>	gear DG -4,5 sz 20 1V	<b>TESC0160</b>	locking bolt VSO/A DG sz 1			445 - 815	223 - 407
<b>TGMG0010</b>	gear DG -4,5 sz 20 1V	<b>TESC0340</b>	locking bolt VSO/A DG sz 2			594 - 993	297 - 497
<b>TGMG0010</b>	gear DG -4,5 sz 20 1V	<b>TESC0360</b>	locking bolt VSO/A DG sz 4 1V			994 - 1393	497 - 697
<b>TGMG0010</b>	gear DG -4,5 sz 20 1V	<b>TESC0380</b>	locking bolt VSO/A DG sz 6 1V			1394 - 1793	697 - 897
<b>TGMG0010</b>	gear DG -4,5 sz 20 1V	<b>TESC0380</b>	locking bolt VSO/A DG sz 6 1V	<b>TZKG0110</b>	linkage DG sz 1	1794 - 2193	897 - 1097
<b>TGMG0010</b>	gear DG -4,5 sz 20 1V	<b>TESC0380</b>	locking bolt VSO/A DG sz 6 1V	<b>TZKG0120</b>	linkage DG sz 2 1V	2194 - 2400	1097 - 1200

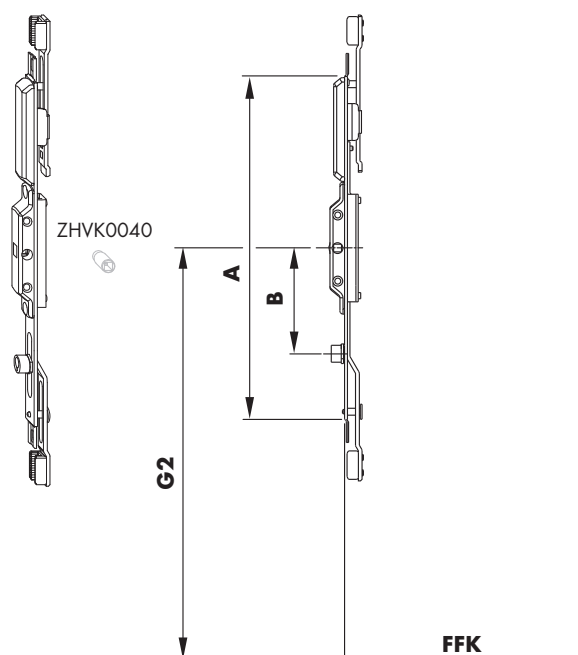


## Technical information

Part number	Description	FFH	Dimensions (mm)				
			G2	A	B		
TGMG0010-...	gear DG -4,5 sz 20 1V	445 - 2400	223 - 1200	224	66	1	2



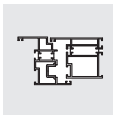
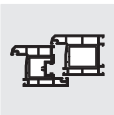
- Backset -4,5 mm
- For basic security
- Reverse-action
- Handle height centre/variable



## Sales information

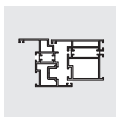
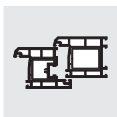
Description	Part number	Surface	Colour	Box quantity
gear DG -4,5 sz 20 1V	TGMG0010-10001_	Titan Silver	without	1 pc
	TGMG0010-10004_	Titan Silver	without	25 pcs





## Sales information

Description	Part number	Surface	Colour	Box quantity
locking bolt VSO/A DG sz 1	TESC0160-10001_	Titan Silver	without	1 pc
	TESC0160-10004_	Titan Silver	without	25 pcs
locking bolt VSO/A DG sz 2	TESC0340-10001_	Titan Silver	without	1 pc
	TESC0340-10004_	Titan Silver	without	25 pcs
locking bolt VSO/A DG sz 3 1V	TESC0350-10001_	Titan Silver	without	1 pc
	TESC0350-10004_	Titan Silver	without	25 pcs
locking bolt VSO/A DG sz 4 1V	TESC0360-10001_	Titan Silver	without	1 pc
	TESC0360-10004_	Titan Silver	without	25 pcs
locking bolt VSO/A DG sz 5 1V	TESC0370-10001_	Titan Silver	without	1 pc
	TESC0370-10004_	Titan Silver	without	25 pcs
locking bolt VSO/A DG sz 6 1V	TESC0380-10001_	Titan Silver	without	1 pc
	TESC0380-10004_	Titan Silver	without	25 pcs

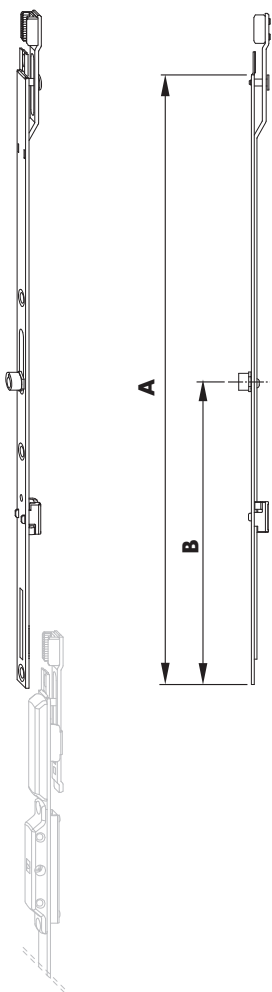


Technical information

Part number	Description	Dimensions (mm)			
		A	B		
TZKG0110-...	linkage DG sz 1	197	-	0	1
TZKG0120-...	linkage DG sz 2 1V	397	197	1	3
TZKG0130-...	linkage DG sz 3 1V	597	197	1	4

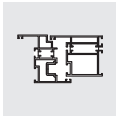


- For basic security



Sales information

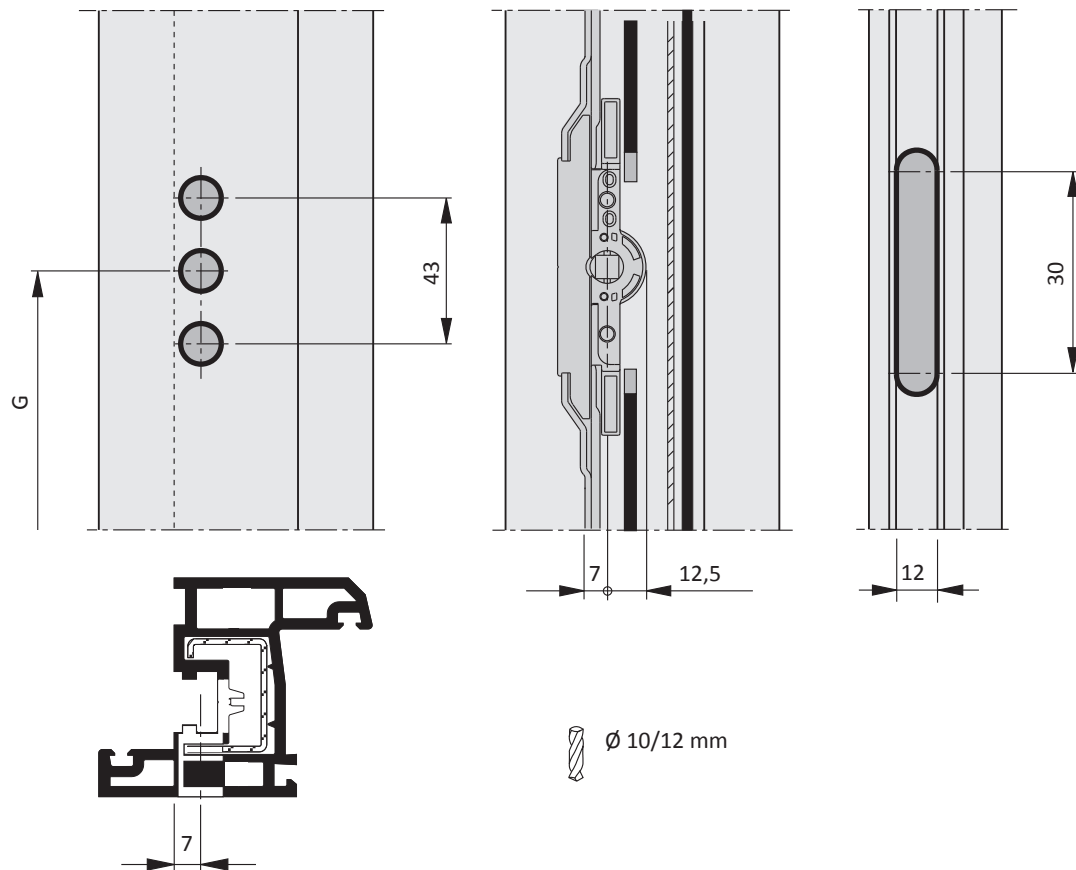
Description	Part number	Surface	Colour	Box quantity
linkage DG sz 1	TZKG0110-10001_	Titan Silver	without	1 pc
	TZKG0110-10004_	Titan Silver	without	25 pcs
linkage DG sz 2 1V	TZKG0120-10001_	Titan Silver	without	1 pc
	TZKG0120-10004_	Titan Silver	without	25 pcs
linkage DG sz 3 1V	TZKG0130-10001_	Titan Silver	without	1 pc
	TZKG0130-10004_	Titan Silver	without	25 pcs



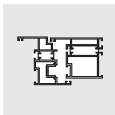
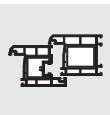
## DG 7 gear

Drill holes and routing  
Backset 7



**TITAN**



3.7



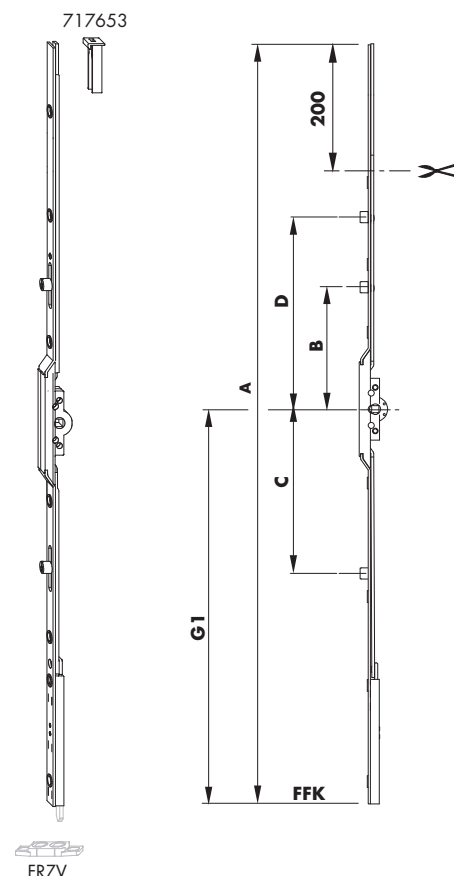
## Technical information

Part number	Description	FFH	Dimensions (mm)						
			G1	A	B	C	D		
TGKG1220-...	gear DG 7 sz 60/G250	601 - 800	250	800	-	-	-	1	4
TGKG1030-...	gear DG 7 sz 60/G300	601 - 800	300	800	-	-	-	1	4
TGKG1230-...	gear DG 7 sz 80/G250 1V	801 - 1000	250	1000	218	-	-	2	5
TGKG1040-...	gear DG 7 sz 80/G300 1V	801 - 1000	300	1000	168	-	-	2	5
TGKG1050-...	gear DG 7 sz 80/G400 1V	801 - 1000	400	1000	96	-	-	2	5
TGKG1240-...	gear DG 7 sz 100/G250 1V	1001 - 1200	250	1200	336	-	-	2	6
TGKG1060-...	gear DG 7 sz 100/G400 1V	1001 - 1200	400	1200	186	-	-	2	6
TGKG1070-...	gear DG 7 sz 100/G500 1V	1001 - 1200	500	1200	96	-	-	2	6
TGKG1080-...	gear DG 7 sz 120/G400 1V	1201 - 1400	400	1400	286	-	-	2	8
TGKG1090-...	gear DG 7 sz 120/G500 1V	1201 - 1400	500	1400	186	-	-	2	8
TGKG1100-...	gear DG 7 sz 120/G600 1V	1201 - 1400	600	1400	96	-	-	2	7
TGKG1110-...	gear DG 7 sz 140/G500 1V	1401 - 1600	500	1600	286	-	-	2	9
TGKG1120-...	gear DG 7 sz 140/G600 1V	1401 - 1600	600	1600	186	-	-	2	8
TGKG1130-...	gear DG 7 sz 140/G700 1V	1401 - 1600	700	1600	96	-	-	2	7
TGKG1140-...	gear DG 7 sz 160/G600 1V	1601 - 1800	600	1800	96	-	-	2	9
TGKG1150-...	gear DG 7 sz 160/G700 2V	1601 - 1800	700	1800	451	149	-	3	10
TGKG1160-...	gear DG 7 sz 180/G600 2V	1801 - 2000	600	2000	96	-	668	3	10
TGKG1170-...	gear DG 7 sz 180/G700 2V	1801 - 2000	700	2000	96	-	588	3	10
TGKG1180-...	gear DG 7 sz 180/G1000 2V	1801 - 2000	1000	2000	266	334	-	3	12
TGKG1190-...	gear DG 7 sz 200/G600 2V	2001 - 2200	600	2200	96	-	668	3	11
TGKG1200-...	gear DG 7 sz 200/G1000 2V	2001 - 2200	1000	2200	266	334	-	3	13
TGKG1210-...	gear DG 7 sz 220/G1000 2V	2201 - 2400	1000	2400	266	334	-	3	11

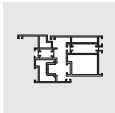


3.7

- Backset 7 mm
- For basic security
- Reverse-action
- Handle height constant



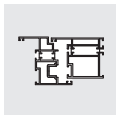
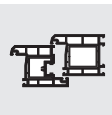




## Sales information

Description	Part number	Surface	Colour	Box quantity
gear DG 7 sz 60/G250	TGKG1220-10001_	Titan Silver	without	1 pc
	TGKG1220-10004_	Titan Silver	without	25 pcs
gear DG 7 sz 60/G300	TGKG1030-10001_	Titan Silver	without	1 pc
	TGKG1030-10004_	Titan Silver	without	25 pcs
gear DG 7 sz .80/G250 1V	TGKG1230-10001_	Titan Silver	without	1 pc
	TGKG1230-10004_	Titan Silver	without	25 pcs
gear DG 7 sz 80/G300 1V	TGKG1040-10001_	Titan Silver	without	1 pc
	TGKG1040-10004_	Titan Silver	without	25 pcs
gear DG 7 sz 80/G400 1V	TGKG1050-10001_	Titan Silver	without	1 pc
	TGKG1050-10004_	Titan Silver	without	25 pcs
gear DG 7 sz 100/G250 1V	TGKG1240-10001_	Titan Silver	without	1 pc
	TGKG1240-10004_	Titan Silver	without	25 pcs
gear DG 7 sz 100/G400 1V	TGKG1060-10001_	Titan Silver	without	1 pc
	TGKG1060-10004_	Titan Silver	without	25 pcs
gear DG 7 sz 100/G500 1V	TGKG1070-10001_	Titan Silver	without	1 pc
	TGKG1070-10004_	Titan Silver	without	25 pcs
gear DG 7 sz 120/G400 1V	TGKG1080-10001_	Titan Silver	without	1 pc
	TGKG1080-10004_	Titan Silver	without	25 pcs
gear DG 7 sz 120/G500 1V	TGKG1090-10001_	Titan Silver	without	1 pc
	TGKG1090-10004_	Titan Silver	without	25 pcs
gear DG 7 sz 120/G600 1V	TGKG1100-10001_	Titan Silver	without	1 pc
	TGKG1100-10004_	Titan Silver	without	25 pcs
gear DG 7 sz 140/G500 1V	TGKG1110-10001_	Titan Silver	without	1 pc
	TGKG1110-10002_	Titan Silver	without	10 pcs
gear DG 7 sz 140/G600 1V	TGKG1120-10001_	Titan Silver	without	1 pc
	TGKG1120-10002_	Titan Silver	without	10 pcs
gear DG 7 sz 140/G700 1V	TGKG1130-10001_	Titan Silver	without	1 pc
	TGKG1130-10002_	Titan Silver	without	10 pcs
gear DG 7 sz 160/G600 1V	TGKG1140-10001_	Titan Silver	without	1 pc
	TGKG1140-10002_	Titan Silver	without	10 pcs
gear DG 7 sz 160/G700 2V	TGKG1150-10001_	Titan Silver	without	1 pc
	TGKG1150-10002_	Titan Silver	without	10 pcs
gear DG 7 sz 180/G600 2V	TGKG1160-10001_	Titan Silver	without	1 pc
	TGKG1160-10002_	Titan Silver	without	10 pcs
gear DG 7 sz 180/G700 2V	TGKG1170-10001_	Titan Silver	without	1 pc
	TGKG1170-10002_	Titan Silver	without	10 pcs
gear DG 7 sz 180/G1000 2V	TGKG1180-10001_	Titan Silver	without	1 pc
	TGKG1180-10002_	Titan Silver	without	10 pcs
gear DG 7 sz 200/G600 2V	TGKG1190-10001_	Titan Silver	without	1 pc
	TGKG1190-10002_	Titan Silver	without	10 pcs
gear DG 7 sz 200/G1000 2V	TGKG1200-10001_	Titan Silver	without	1 pc
	TGKG1200-10002_	Titan Silver	without	10 pcs
gear DG 7 sz 220/G1000 2V	TGKG1210-10001_	Titan Silver	without	1 pc
	TGKG1210-10002_	Titan Silver	without	10 pcs





## Application matrix for gear 7 AF/DG



Handle height constant

**TITAN AF**

Material number	Description	Material number	Description	FFH (mm)	G (mm)
<b>TGKG1620</b>	gear 7 AF/DG sz 50/G190			500 - 700	190
<b>TGKG1640</b>	gear 7 AF/DG sz 60/G300			601 - 800	300
<b>TGKG1670</b>	gear 7 AF/DG sz 80/G400 1RS			801 - 1000	400
<b>TGKG1700</b>	gear 7 AF/DG sz 100/G500 1RS			1001 - 1200	500
<b>TGKG1730</b>	gear 7 AF/DG sz 120/G600 1RS			1201 - 1400	600
<b>TGKG1760</b>	gear 7 AF/DG sz 140/G700 2RS			1401 - 1600	700
<b>TGKG1780</b>	gear 7 AF/DG sz 160/G700 2RS 70			1601 - 1800	700
<b>TGKG1800</b>	gear 7 AF/DG sz 180/G1000 2RS 70			1801 - 2000	1000
<b>TGKG1810</b>	gear 7 AF/DG sz 200/G1000 3RS 70			2001 - 2200	1000
<b>TGKG1820</b>	gear 7 AF/DG sz 220/G1000 3RS 70			2201 - 2400	1000
<b>TGKG1820</b>	gear 7 AF/DG sz 220/G1000 3RS 70	<b>TZZS0150</b>	linkage AF sz 1	2401 - 2600	1000
<b>TGKG1820</b>	gear 7 AF/DG sz 220/G1000 3RS 70	<b>TZKK1020</b>	linkage KK/AF sz 2 1RS	2601 - 2800	1000
<b>TGKG1820</b>	gear 7 AF/DG sz 220/G1000 3RS 70	<b>TZKK1020</b>	linkage KK/AF sz 2 1RS	2801 - 3000	1000
		<b>TZZS0150</b>	linkage AF sz 1		

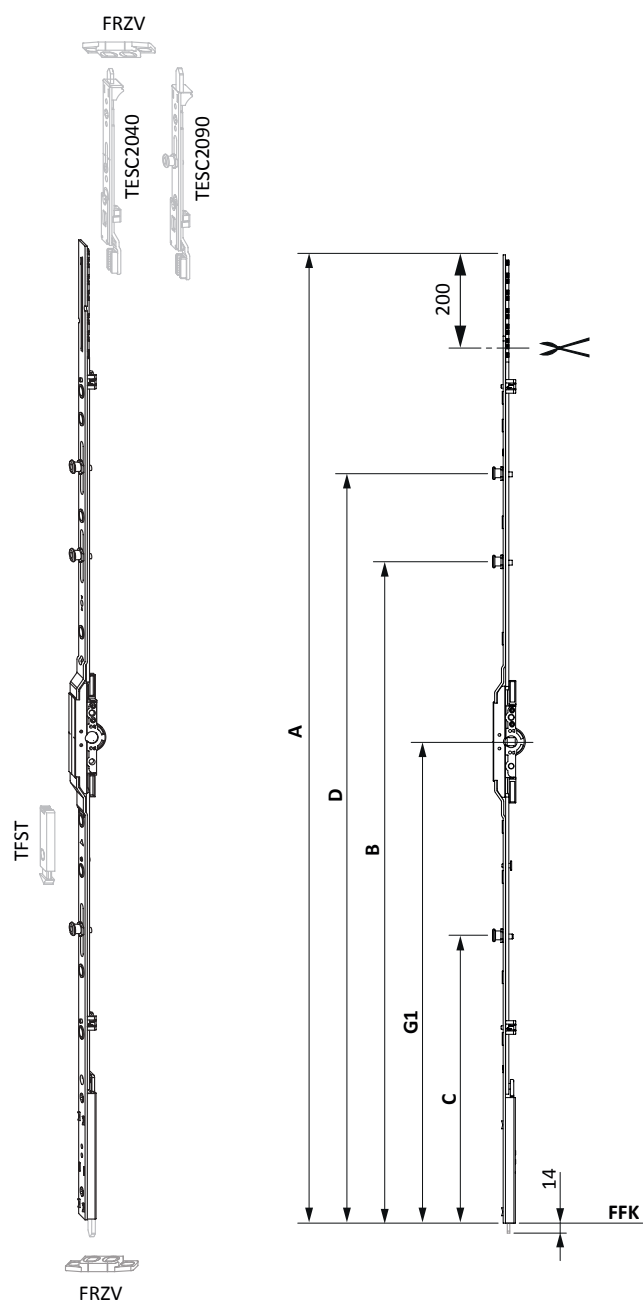
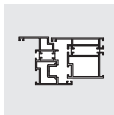
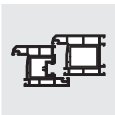


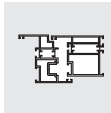
## Technical information

Part number	Description	FFH	Dimensions (mm)						
			G1	A	B	C	D		
TGKG1620-...	gear 7 AF/DG sz 50/G190	500 - 700	190	560	-	-	-	1	3
TGKG1630-...	gear 7 AF/DG sz 60/G250	601 - 800	250	660	-	-	-	1	4
TGKG1640-...	gear 7 AF/DG sz 60/G300	601 - 800	300	660	-	-	-	1	4
TGKG1650-...	gear 7 AF/DG sz 80/G250 1RS	801 - 1000	250	860	480	-	-	2	5
TGKG1660-...	gear 7 AF/DG sz 80/G300 1RS	801 - 1000	300	860	480	-	-	2	5
TGKG1670-...	gear 7 AF/DG sz 80/G400 1RS	801 - 1000	400	860	480	-	-	2	4
TGKG1680-...	gear 7 AF/DG sz 100/G250 1RS	1001 - 1200	250	1060	680	-	-	2	6
TGKG1690-...	gear 7 AF/DG sz 100/G400 1RS	1001 - 1200	400	1060	680	-	-	2	5
TGKG1700-...	gear 7 AF/DG sz 100/G500 1RS	1001 - 1200	500	1060	680	-	-	2	6
TGKG1710-...	gear 7 AF/DG sz 120/G400 1RS	1201 - 1400	400	1260	680	-	-	2	6
TGKG1720-...	gear 7 AF/DG sz 120/G500 1RS	1201 - 1400	500	1260	680	-	-	2	7
TGKG1730-...	gear 7 AF/DG sz 120/G600 1RS	1201 - 1400	600	1260	680	-	-	2	6
TGKG1740-...	gear 7 AF/DG sz 140/G500 2RS	1401 - 1600	500	1460	880	380	-	3	7
TGKG1750-...	gear 7 AF/DG sz 140/G600 2RS	1401 - 1600	600	1460	880	380	-	3	7
TGKG1760-...	gear 7 AF/DG sz 140/G700 2RS	1401 - 1600	700	1460	880	380	-	3	8
TGKG1770-...	gear 7 AF/DG sz 160/G600 2RS 70	1601 - 1800	600	1660	1080	380	-	3	8
TGKG1780-...	gear 7 AF/DG sz 160/G700 2RS 70	1601 - 1800	700	1660	1080	380	-	3	8
TGKG1790-...	gear 7 AF/DG sz 180/G700 2RS 70	1801 - 2000	700	1860	1280	580	-	3	9
TGKG1800-...	gear 7 AF/DG sz 180/G1000 2RS 70	1801 - 2000	1000	1860	1280	580	-	3	9
TGKG1810-...	gear 7 AF/DG sz 200/G1000 3RS 70	2001 - 2200	1000	2060	1280	580	1680	4	10
TGKG1820-...	gear 7 AF/DG sz 220/G1000 3RS 70	2201 - 2400	1000	2260	1280	580	1680	4	11



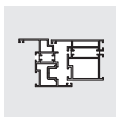
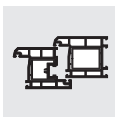
- Backset 7 mm
- For basic security
- Reverse-action
- Handle height constant
- Suitable for snapper TFST FFH 1600-2400 mm



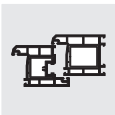


## Sales information

Description	Part number	Surface	Colour	Box quantity
gear 7 AF/DG sz 50/G190	TGKG1620-10001_	Titan Silver	without	1 pc
	TGKG1620-10004_	Titan Silver	without	25 pcs
gear 7 AF/DG sz 60/G250	TGKG1630-10001_	Titan Silver	without	1 pc
	TGKG1630-10004_	Titan Silver	without	25 pcs
gear 7 AF/DG sz 60/G300	TGKG1640-10001_	Titan Silver	without	1 pc
	TGKG1640-10004_	Titan Silver	without	25 pcs
gear 7 AF/DG sz 80/G250 1RS	TGKG1650-10001_	Titan Silver	without	1 pc
	TGKG1650-10004_	Titan Silver	without	25 pcs
gear 7 AF/DG sz 80/G300 1RS	TGKG1660-10001_	Titan Silver	without	1 pc
	TGKG1660-10004_	Titan Silver	without	25 pcs
gear 7 AF/DG sz 80/G400 1RS	TGKG1670-10001_	Titan Silver	without	1 pc
	TGKG1670-10004_	Titan Silver	without	25 pcs
gear 7 AF/DG sz 100/G250 1RS	TGKG1680-10001_	Titan Silver	without	1 pc
	TGKG1680-10004_	Titan Silver	without	25 pcs
gear 7 AF/DG sz 100/G400 1RS	TGKG1690-10001_	Titan Silver	without	1 pc
	TGKG1690-10004_	Titan Silver	without	25 pcs
gear 7 AF/DG sz 100/G500 1RS	TGKG1700-10001_	Titan Silver	without	1 pc
	TGKG1700-10004_	Titan Silver	without	25 pcs
gear 7 AF/DG sz 120/G400 1RS	TGKG1710-10001_	Titan Silver	without	1 pc
	TGKG1710-10004_	Titan Silver	without	25 pcs
gear 7 AF/DG sz 120/G500 1RS	TGKG1720-10001_	Titan Silver	without	1 pc
	TGKG1720-10004_	Titan Silver	without	25 pcs
gear 7 AF/DG sz 120/G600 1RS	TGKG1730-10001_	Titan Silver	without	1 pc
	TGKG1730-10004_	Titan Silver	without	25 pcs
gear 7 AF/DG sz 140/G500 2RS	TGKG1740-10001_	Titan Silver	without	1 pc
	TGKG1740-10002_	Titan Silver	without	10 pcs
gear 7 AF/DG sz 140/G600 2RS	TGKG1750-10001_	Titan Silver	without	1 pc
	TGKG1750-10002_	Titan Silver	without	10 pcs
gear 7 AF/DG sz 140/G700 2RS	TGKG1760-10001_	Titan Silver	without	1 pc
	TGKG1760-10002_	Titan Silver	without	10 pcs
gear 7 AF/DG sz 160/G600 2RS 70	TGKG1770-10001_	Titan Silver	without	1 pc
	TGKG1770-10002_	Titan Silver	without	10 pcs
gear 7 AF/DG sz 160/G700 2RS 70	TGKG1780-10001_	Titan Silver	without	1 pc
	TGKG1780-10002_	Titan Silver	without	10 pcs
gear 7 AF/DG sz 180/G700 2RS 70	TGKG1790-10001_	Titan Silver	without	1 pc
	TGKG1790-10002_	Titan Silver	without	10 pcs
gear 7 AF/DG sz 180/G1000 2RS 70	TGKG1800-10001_	Titan Silver	without	1 pc
	TGKG1800-10002_	Titan Silver	without	10 pcs
gear 7 AF/DG sz 200/G1000 3RS 70	TGKG1810-10001_	Titan Silver	without	1 pc
	TGKG1810-10002_	Titan Silver	without	10 pcs
gear 7 AF/DG sz 220/G1000 3RS 70	TGKG1820-10001_	Titan Silver	without	1 pc
	TGKG1820-10002_	Titan Silver	without	10 pcs



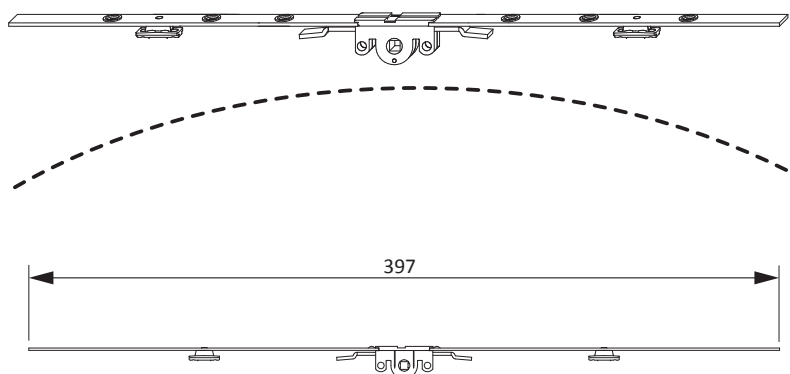
Description	Material	Page
gear GF	FGWF0010	3.8 - 2
intermediate gear KF	ZGZW0010, ZGZW0020, ZGZW0030, ZGZW0040, ZGZW0050	3.8 - 3
intermediate gear H	ZGZW0080, ZGZW0090, TMGB0010	3.8 - 5
crt. cardan drive gear	306345, 306338, 306478, FMKA0010	3.8 - 7



## Technical information

Part number	Description	Dimensions (mm) A		
FGWF0010-...	gear GF	397	0	6

- Backset 16 mm
- Suitable for elements with round, semi-circular or curved surfaces
- For specific hardware sets for individual designs, please speak to our applications technology staff

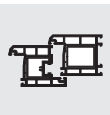


3.8

## Sales information

Description	Part number	Surface	Colour	Box quantity
gear GF	FGWF0010-10001_	Titan Silver	without	1 pc
	FGWF0010-10004_	Titan Silver	without	25 pcs



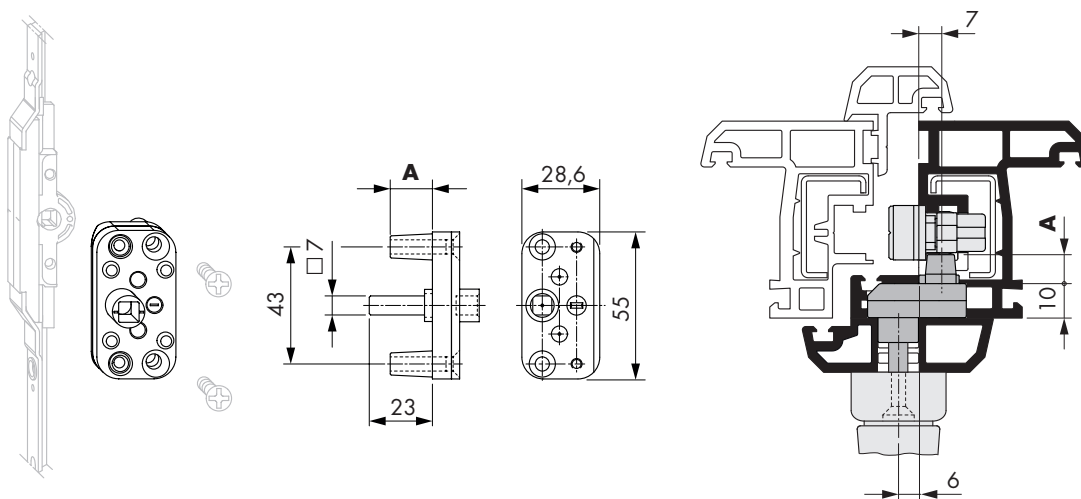


## Technical information

Part number	Description	Dimensions (mm)
		A
ZGZW0010-...	intermediate gear sz 1 ..	8,50
ZGZW0020-...	intermediate gear sz 2 ..	11,50
ZGZW0030-...	intermediate gear sz 3 ..	13
ZGZW0040-...	intermediate gear sz 4 ..	14,40
ZGZW0050-...	intermediate gear sz 5 ..	15,70

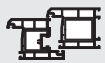


- For double sash windows/french doors without a centre mullion
- Symmetrical interior and exterior view
- Only to be combined with gears backset 7mm
- Reduction from 7mm to -6mm backset



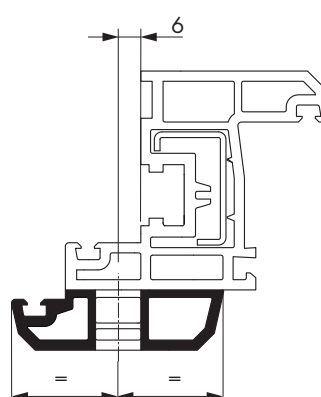
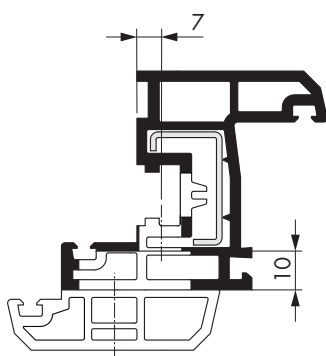
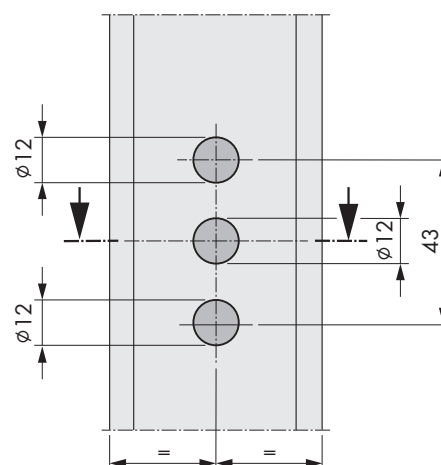
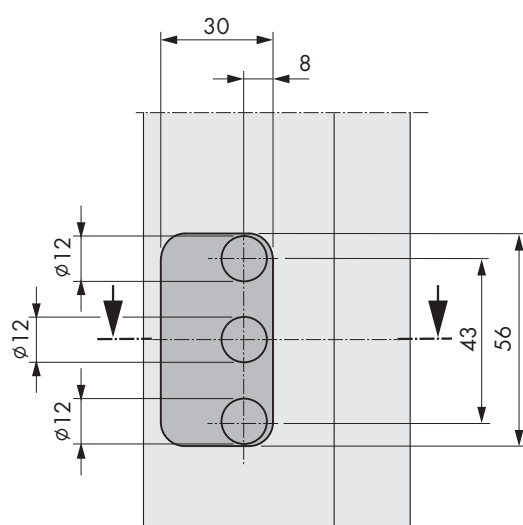
## Sales information

Description	Part number	Surface	Colour	Box quantity
intermediate gear sz 1 ..	ZGZW0010-10001_	Titan Silver	without	1 pc
	ZGZW0010-10003_	Titan Silver	without	20 pcs
intermediate gear sz 2 ..	ZGZW0020-10001_	Titan Silver	without	1 pc
	ZGZW0020-10003_	Titan Silver	without	20 pcs
intermediate gear sz 3 ..	ZGZW0030-10001_	Titan Silver	without	1 pc
	ZGZW0030-10003_	Titan Silver	without	20 pcs
intermediate gear sz 4 ..	ZGZW0040-10001_	Titan Silver	without	1 pc
	ZGZW0040-10003_	Titan Silver	without	20 pcs
intermediate gear sz 5 ..	ZGZW0050-10001_	Titan Silver	without	1 pc
	ZGZW0050-10003_	Titan Silver	without	20 pcs



## Drill holes and routings

- 1. Place the mullion cover centrally.
- 2. Drill holes for the handle ( $\varnothing 12$  mm).
- 3. Carry out routing for the intermediate gear (routing collar  $\varnothing 27$  mm, routing bit  $\varnothing 16$  mm).
- 4. Take into account the direction (DIN right or DIN left).
- 5. Insert gear 7, then insert the intermediate gear into the cut-out and fix together with M5 countersunk screws.
- 6. Place the mullion cover over the milling cut-out and fix into position.
- 7. Connect the handle and intermediate gear with M5 countersunk screws, screw in place taking into account the spindle length.



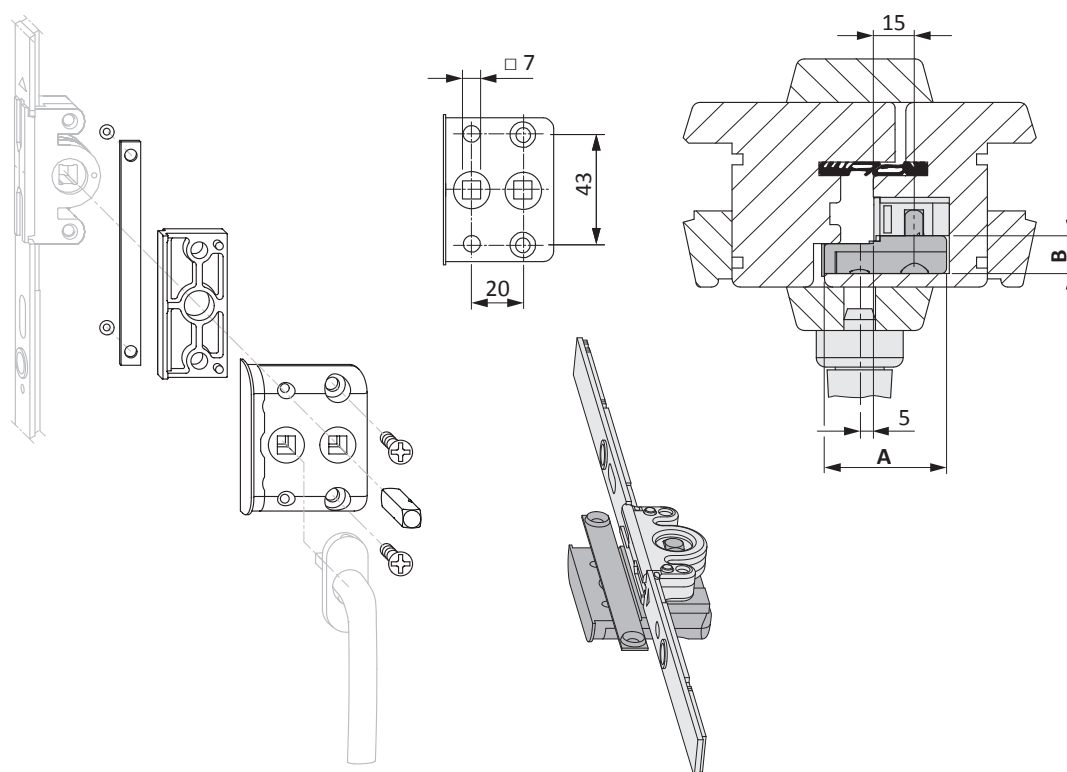


## Technical information

Part number	Description	Dimensions (mm)	
		A	B
ZGZW0080-...	intermediate gear UEB 20mm	48	18
ZGZW0090-...	intermediate gear UEB 18mm	46	18
TMGB0010-...	intermed.gear anti-drill guard	-	-



- For double sash windows/french doors without a centre mullion
- Symmetrical interior and exterior view
- Only to be combined with SIEGENIA gears backset 15mm
- Reduction from 15mm to -5mm backset
- Use the TMGB anti-drill guard for requirements in accordance with DIN EN 1627
- You can find our installation video here: <https://youtu.be/LXUQAMNexog>



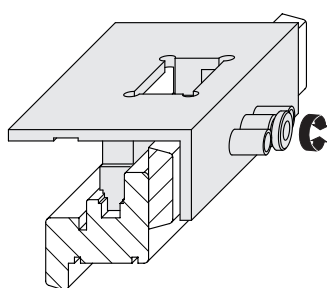
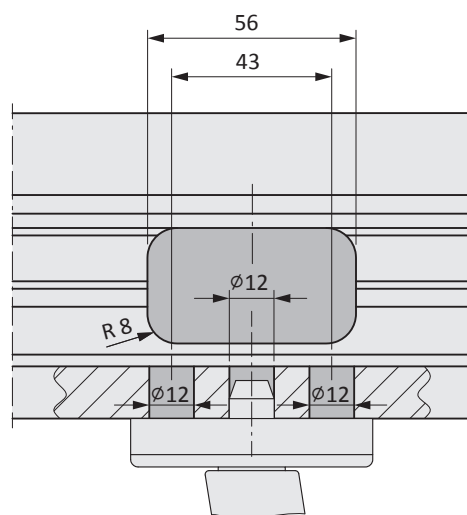
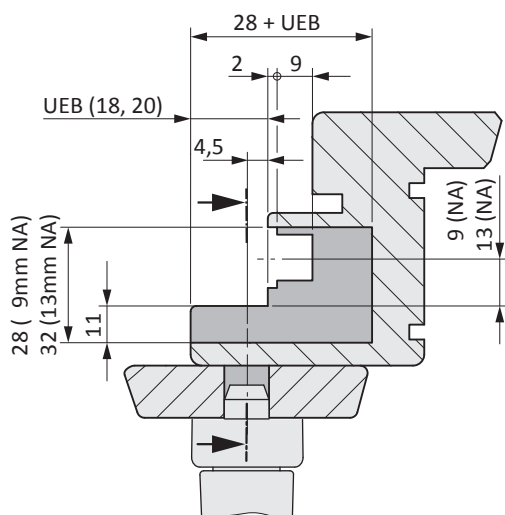
## Sales information

Description	Part number	Surface	Colour	Box quantity
intermediate gear UEB 20mm	ZGZW0080-10001_	Titan Silver	without	1 pc
	ZGZW0080-10005_	Titan Silver	without	50 pcs
intermediate gear UEB 18mm	ZGZW0090-10001_	Titan Silver	without	1 pc
	ZGZW0090-10005_	Titan Silver	without	50 pcs
intermed.gear anti-drill guard	TMGB0010-L3401_	lacquered	titan m bright	1 pc
	TMGB0010-L3405_	lacquered	titan m bright	50 pcs

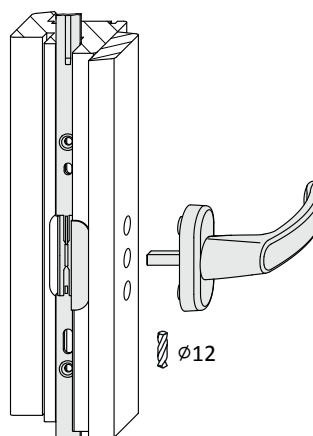


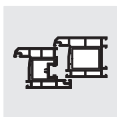
## Drill holes and routings

- 1. Centre the inner mullion moulding according to the backset.
- 2. Insert template into the hardware groove according to dimension G and clamp with middle drill jig bush.
- 3. Drill holes for handle ( $\varnothing 12$  mm).
- 4. Carry out milling for intermediate gear (spacer disk  $\varnothing 27$  mm, milling tool  $\varnothing 16$  mm).
- 5. Note the direction of impact (DIN right or DIN left).
- 6. Fix the intermediate gear and, if necessary, the distance plate with countersunk screw M5 and square spindle to the gear 15 (9 mm NA = groove direction of intermediate gear, 13 mm NA = groove direction of gear)
- 7. Insert the gear into the milling groove and fix in place.
- 8. Connect the handle and intermediate gear with countersunk screws M5. Note screw and spindle lengths.



12/18-9 147207  
12/18-13 TAFS0010



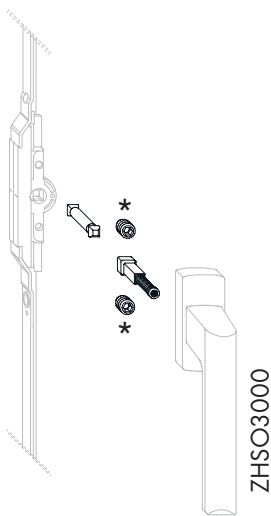


Technical information

Part number	Description
306345	cardan drive gear 34-39mm ..
306338	cardan drive gear 39-44mm ..
318478	cardan drive gear 44-49mm ..
FMKA0010-...	cardan drive gear 49-54mm ..

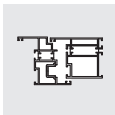
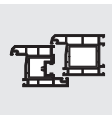


- Only to be combined with gears backset 7mm
- Symmetrical interior view of the window profiles
- Without centre pole with inner sill bar
- \* **Additionally required:**  
for PVC elements - collar bushing, 713426  
for timber elements - threaded plug M5, 723678
- Detailed instructions for timber elements see installation instruction FHde1026
- Detailed instructions for PVC elements see installation instruction FKde1019

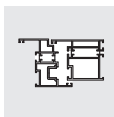
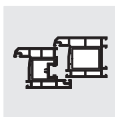


Sales information



Description	Part number	Surface	Colour	Box quantity
cardan drive gear 34-39mm ..	306345	Titan Silver	without	50 pcs
cardan drive gear 39-44mm ..	306338	Titan Silver	without	50 pcs
cardan drive gear 44-49mm ..	318478	Titan Silver	without	50 pcs
cardan drive gear 49-54mm ..	FMKA0010-10005_	Titan Silver	without	50 pcs



<b>Description</b>	<b>Material</b>	<b>Page</b>
linkage BS/FH+	TZBS0180, TZBS0190, TZBS0300, TZBS0200	4 - 2
extension+	TVSO0200, TVSL0320, TVSL0330, TVSL0340, TVSL0350, TVSL0360, TVSL0370	4 - 4
linkage AF	TZZS0150	4 - 6
linkage additional stay	TZOK1030, TZOK1010	4 - 7
linkage KK/AF	TZKK1010, TZKK1020, TZKK1050, TZKK1070	4 - 8
linkage AF SB/RS	TZKS1020, TZKS1030, TZKS1080, TZKS1090	4 - 9
linkage AF 1SB-VSU	TZKS1060, TZKS1070	4 - 10
linkage AF A0767	TZKS1040, TZKS1050	4 - 11
linkage KS sec.sash 8	TZKS1010	4 - 12
linkage AF/RB	TZZS0100, TZZS0110, TZZS0120, TZZS0130, TZZS0140	4 - 13
linkage AF/RB-A	TZZS0210	4 - 15
linkage RB	TVNL0060, TVNL0050	4 - 16
linkage AF/UE	TZZS0160	4 - 17
linkage AF/UE 1 RS	TZZS0250	4 - 18
linkage US A0273	TZUS1090	4 - 19
linkage US FH A0273	TZUS1110	4 - 20
extension A0273	TVSL0420	4 - 21
linkage AF 1RS/A	TZZS0200	4 - 22
linkage AF 1RS/A	TZZS0180	4 - 23
linkage AF 1V	TZZS0220	4 - 24
linkage AF ZZ	TZZZ0010	4 - 25
linkage AF ZZ A0273	TZZZ0030	4 - 26
linkage FPS/ZZ	TZZZ0040	4 - 27

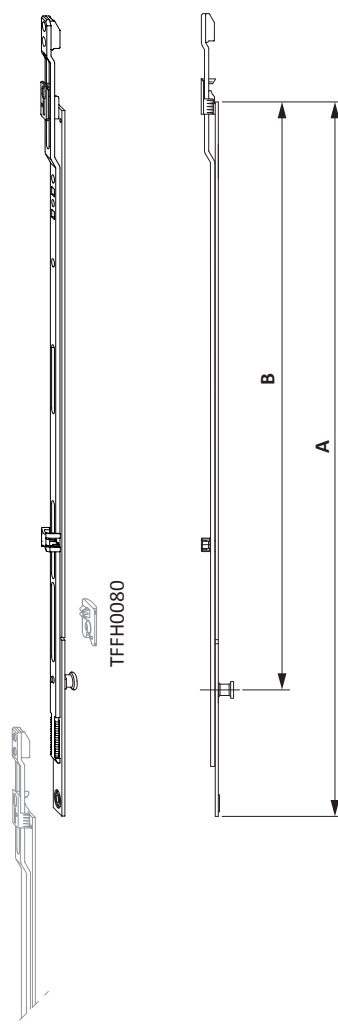


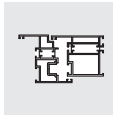
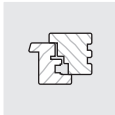
## Technical information

Part number	Description	Dimensions (mm)			
		A	B		
TZBS0180-...	linkage BS/FH sz 1+ 1RS	304	217	1	2
TZBS0190-...	linkage BS/FH sz 2+ 1RS	504	417	1	3
TZBS0300-...	linkage BS/FH sz 3+ 1RS 70	704	617	1	4
TZBS0200-...	linkage BS/FH sz 3+ 1RS	800	713	1	5



- Coupling location to slide underneath
- The range of application conforms to the connecting components

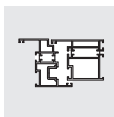
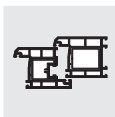






## Sales information

Description	Part number	Surface	Colour	Box quantity
linkage BS/FH sz 1+ 1RS	TZBS0180-10001_	Titan Silver	without	1 pc
	TZBS0180-10004_	Titan Silver	without	25 pcs
	TZBS0180-10005_	Titan Silver	without	50 pcs
	TZBS0180-10027_	Titan Silver	without	800 pcs
	TZBS0180-10047_	Titan Silver	without	500 pcs
	TZBS0180-10077_	Titan Silver	without	1800 IVP
linkage BS/FH sz 2+ 1RS	TZBS0190-10001_	Titan Silver	without	1 pc
	TZBS0190-10004_	Titan Silver	without	25 pcs
	TZBS0190-10030_	Titan Silver	without	1200 pcs
	TZBS0190-10047_	Titan Silver	without	500 pcs
linkage BS/FH sz 3+ 1RS 70	TZBS0300-10001_	Titan Silver	without	1 pc
	TZBS0300-10004_	Titan Silver	without	25 pcs
	TZBS0300-10030_	Titan Silver	without	1200 pcs
linkage BS/FH sz 3+ 1RS	TZBS0200-10001_	Titan Silver	without	1 pc
	TZBS0200-10004_	Titan Silver	without	25 pcs
	TZBS0200-10047_	Titan Silver	without	500 pcs



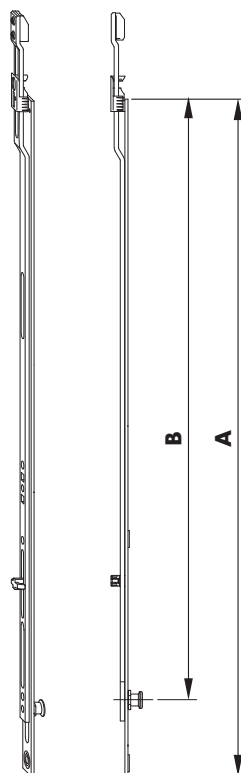


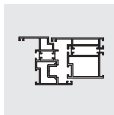
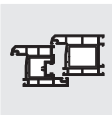
## Technical information

Part number	Description	Dimensions (mm)			
		A	B		
TVSO0200-...	extension sz 1+ 1RS	93	48	1	1
TVSL0320-...	extension sz 2+ 1RS	143	98	1	2
TVSL0330-...	extension sz 3+ 1RS	243	198	1	2
TVSL0340-...	extension sz 4+ 1RS	343	298	1	3
TVSL0350-...	extension sz 5+ 1RS	443	398	1	3
TVSL0360-...	extension sz 6+ 1RS	543	498	1	4
TVSL0370-...	extension sz 7+ 1RS	643	598	1	4



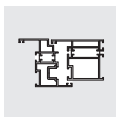
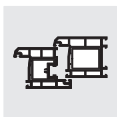
- Coupling location to slide underneath
- The range of application conforms to the connecting components







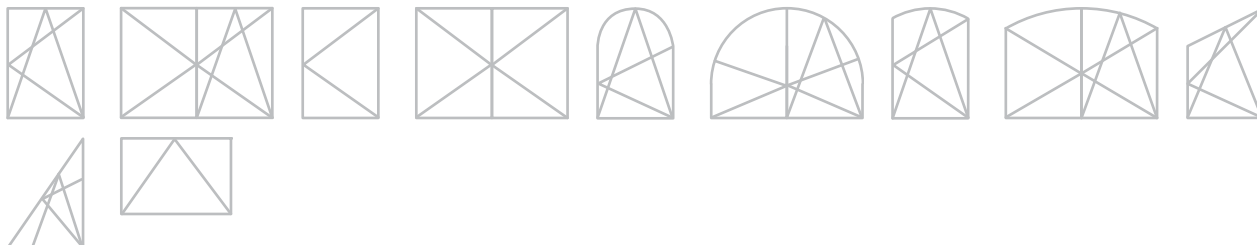
## Sales information

Description	Part number	Surface	Colour	Box quantity
extension sz 1+ 1RS	TVSO0200-10001_	Titan Silver	without	1 pc
	TVSO0200-10005_	Titan Silver	without	50 pcs
extension sz 2+ 1RS	TVSL0320-10001_	Titan Silver	without	1 pc
	TVSL0320-10005_	Titan Silver	without	50 pcs
extension sz 3+ 1RS	TVSL0330-10001_	Titan Silver	without	1 pc
	TVSL0330-10005_	Titan Silver	without	50 pcs
extension sz 4+ 1RS	TVSL0340-10001_	Titan Silver	without	1 pc
	TVSL0340-10005_	Titan Silver	without	50 pcs
extension sz 5+ 1RS	TVSL0350-10001_	Titan Silver	without	1 pc
	TVSL0350-10005_	Titan Silver	without	50 pcs
extension sz 6+ 1RS	TVSL0360-10001_	Titan Silver	without	1 pc
	TVSL0360-10004_	Titan Silver	without	25 pcs
extension sz 7+ 1RS	TVSL0370-10001_	Titan Silver	without	1 pc
	TVSL0370-10004_	Titan Silver	without	25 pcs

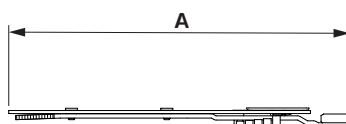


## Technical information

Part number	Description	Dimensions (mm) A		
TZZS0150-...	linkage AF sz 1	200	0	3

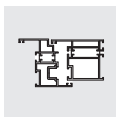
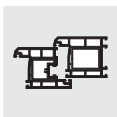


- Applicable in all designs





## Sales information

Description	Part number	Surface	Colour	Box quantity
linkage AF sz 1	TZZS0150-10001_	Titan Silver	without	1 pc
	TZZS0150-10004_	Titan Silver	without	25 pcs

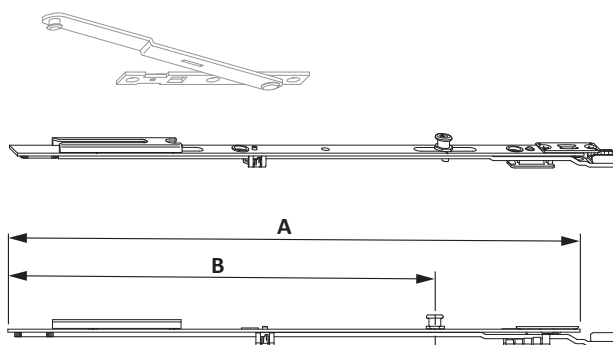


## Technical information

Part number	Description	FFB	Dimensions (mm)			
			A	B		
TZOK1030-...	linkage additional stay sz 1	900 - 1250	200	-	1	2
TZOK1010-...	linkage additional stay 1RS	1251 - 1650	400	305	2	3

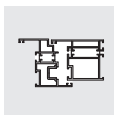
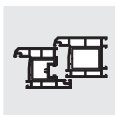


- The size range 900-1250 mm is applicable for the comfort stay.
- TZOK wWith striker plate to accommodate the additional stays.



## Sales information

Description	Part number	Surface	Colour	Box quantity
linkage additional stay sz 1	TZOK1030-10001_	Titan Silver	without	1 pc
	TZOK1030-10004_	Titan Silver	without	25 pcs
linkage additional stay 1RS	TZOK1010-10001_	Titan Silver	without	1 pc
	TZOK1010-10004_	Titan Silver	without	25 pcs

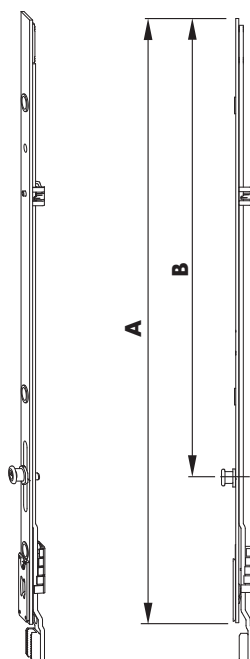


## Technical information

Part number	Description	Dimensions (mm)			
		A	B		
TZKK1010-...	linkage KK/AF sz 1 1RS	200	105	1	3
TZKK1020-...	linkage KK/AF sz 2 1RS	400	305	1	4
TZKK1050-...	linkage KK/AF sz 3 1RS	600	505	1	5
TZKK1070-...	linkage KK/AF sz 4 1RS	800	705	1	6

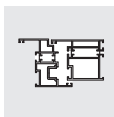
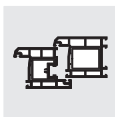


- The range of application conforms to the connecting components





## Sales information

Description	Part number	Surface	Colour	Box quantity
linkage KK/AF sz 1 1RS	TZKK1010-10001_	Titan Silver	without	1 pc
	TZKK1010-10004_	Titan Silver	without	25 pcs
linkage KK/AF sz 2 1RS	TZKK1020-10001_	Titan Silver	without	1 pc
	TZKK1020-10004_	Titan Silver	without	25 pcs
linkage KK/AF sz 3 1RS	TZKK1050-10001_	Titan Silver	without	1 pc
	TZKK1050-10004_	Titan Silver	without	25 pcs
linkage KK/AF sz 4 1RS	TZKK1070-10001_	Titan Silver	without	1 pc
	TZKK1070-10004_	Titan Silver	without	25 pcs

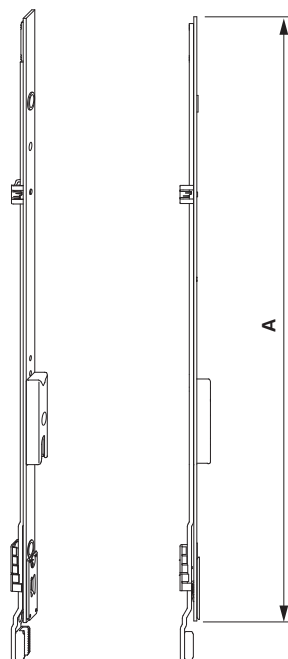


## Technical information

Part number	Description	Dimensions (mm) A		
TZKS1020-...	linkage AF sz 1 1SB-RS	200	0	3
TZKS1030-...	linkage AF sz 2 1SB-RS	400	0	4
TZKS1080-...	linkage AF sz 3 1SB-RS	600	0	5
TZKS1090-...	linkage AF sz 4 1SB-RS	800	0	6

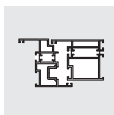
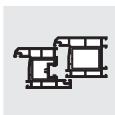


- Use in slave sashes with opposing fitting groove
- The range of application conforms to the connecting components





## Sales information

Description	Part number	Surface	Colour	Box quantity
linkage AF sz 1 1SB-RS	TZKS1020-10001_	Titan Silver	without	1 pc
	TZKS1020-10004_	Titan Silver	without	25 pcs
linkage AF sz 2 1SB-RS	TZKS1030-10001_	Titan Silver	without	1 pc
	TZKS1030-10004_	Titan Silver	without	25 pcs
linkage AF sz 3 1SB-RS	TZKS1080-10001_	Titan Silver	without	1 pc
	TZKS1080-10004_	Titan Silver	without	25 pcs
linkage AF sz 4 1SB-RS	TZKS1090-10001_	Titan Silver	without	1 pc
	TZKS1090-10004_	Titan Silver	without	25 pcs

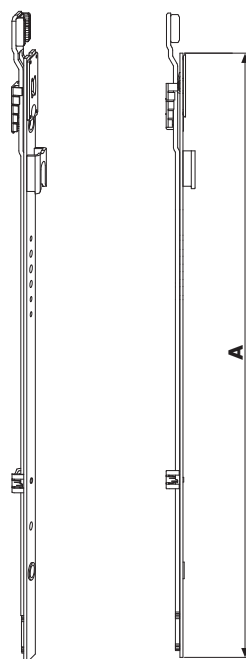


## Technical information

Part number	Description	Dimensions (mm)		
		A		
TZKS1060-...	linkage AF sz 1 1SB-VSU	200	0	2
TZKS1070-...	linkage AF sz 2 1SB-VSU	400	0	3

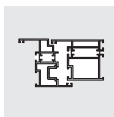
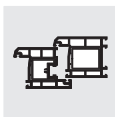


- The range of application conforms to the connecting components





## Sales information

Description	Part number	Surface	Colour	Box quantity
linkage AF sz 1 1SB-VSU	TZKS1060-10001_	Titan Silver	without	1 pc
	TZKS1060-10004_	Titan Silver	without	25 pcs
linkage AF sz 2 1SB-VSU	TZKS1070-10001_	Titan Silver	without	1 pc
	TZKS1070-10004_	Titan Silver	without	25 pcs

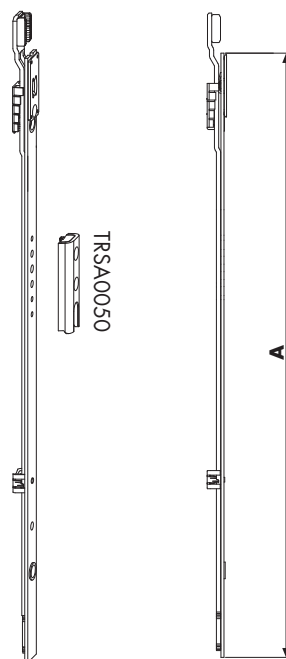


## Technical information

Part number	Description	Dimensions (mm) A		
TZKS1040-...	linkage AF sz 1 A0767	200	0	2
TZKS1050-...	linkage AF sz 2 A0767	400	0	3



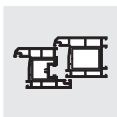
- The range of application conforms to the connecting components



## Sales information

Description	Part number	Surface	Colour	Box quantity
linkage AF sz 1 A0767	TZKS1040-10001_	Titan Silver	without	1 pc
	TZKS1040-10004_	Titan Silver	without	25 pcs
linkage AF sz 2 A0767	TZKS1050-10001_	Titan Silver	without	1 pc
	TZKS1050-10004_	Titan Silver	without	25 pcs



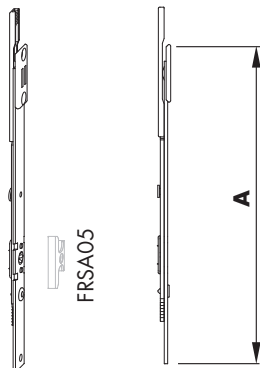


## Technical information

Part number	Description	Dimensions (mm) A		
TZKS1010-...	linkage KS sec.sash 8 sz 1	200	0	3

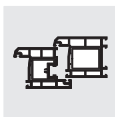


- Can be used in the secondary sash with groove ../8x4
- The range of application conforms to the connecting components



## Sales information

Description	Part number	Surface	Colour	Box quantity
linkage KS sec.sash 8 sz 1	TZKS1010-10001_	Titan Silver	without	1 pc
	TZKS1010-10004_	Titan Silver	without	25 pcs

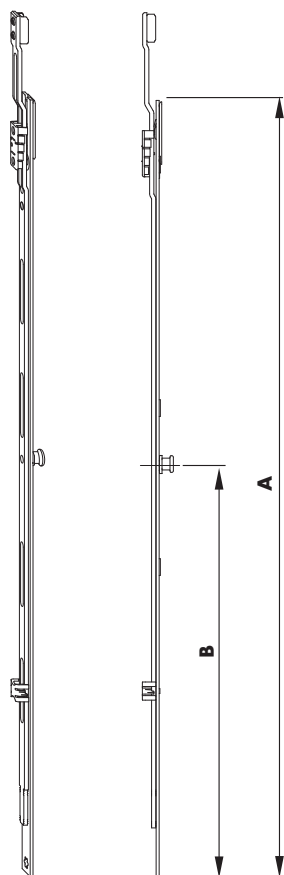


## Technical information

Part number	Description	Dimensions (mm)			
		A	B		
TZZS0100-...	linkage AF/RB sz 1 OZ	200	-	0	3
TZZS0110-...	linkage AF/RB sz 1 OZ 1RS	200	92	1	3
TZZS0120-...	linkage AF/RB sz 2 OZ 1RS	400	92	1	4
TZZS0130-...	linkage AF/RB sz 3 OZ 1RS	600	392	1	5
TZZS0140-...	linkage AF/RB sz 4 OZ 1RS	800	392	1	6



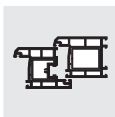
- The range of application conforms to the connecting components





## Sales information

Description	Part number	Surface	Colour	Box quantity
linkage AF/RB sz 1 OZ	TZZS0100-10001_	Titan Silver	without	1 pc
	TZZS0100-10004_	Titan Silver	without	25 pcs
linkage AF/RB sz 1 OZ 1RS	TZZS0110-10001_	Titan Silver	without	1 pc
	TZZS0110-10004_	Titan Silver	without	25 pcs
linkage AF/RB sz 2 OZ 1RS	TZZS0120-10001_	Titan Silver	without	1 pc
	TZZS0120-10004_	Titan Silver	without	25 pcs
linkage AF/RB sz 3 OZ 1RS	TZZS0130-10001_	Titan Silver	without	1 pc
	TZZS0130-10004_	Titan Silver	without	25 pcs
linkage AF/RB sz 4 OZ 1RS	TZZS0140-10001_	Titan Silver	without	1 pc
	TZZS0140-10004_	Titan Silver	without	25 pcs

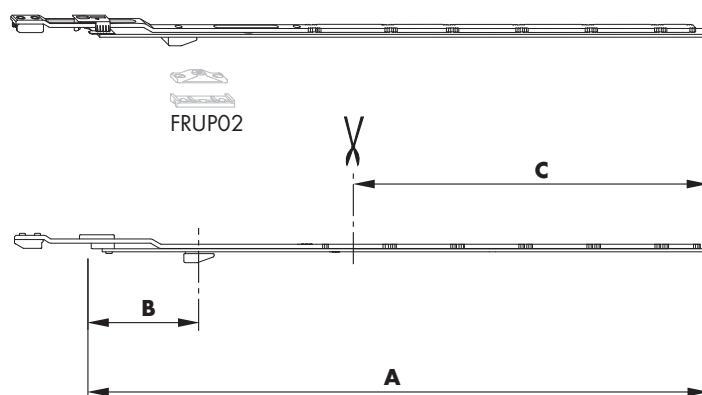


## Technical information

Part number	Description	Dimensions (mm)				
		A	B	C		
TZZS0210-...	linkage AF/RB-A	400	63	200	0	1

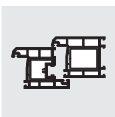


- Packer refer to PDB line item FRUP02
- The range of application conforms to the connecting components



## Sales information

Description	Part number	Surface	Colour	Box quantity
linkage AF/RB-A	TZZS0210-10001_	Titan Silver	without	1 pc
	TZZS0210-10004_	Titan Silver	without	25 pcs

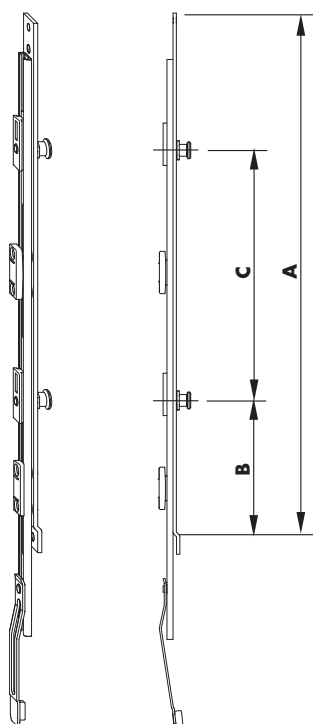


## Technical information

Part number	Description	Dimensions (mm)				
		A	B	C		
TVNL0060-...	short linkage RB 1RS	225	70	-	1	5
TVNL0050-...	short linkage RB 2RS	625	70	400	2	11

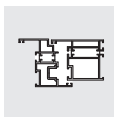
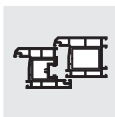


- Also suitable for angled head windows up to a 45° angle
- The range of application conforms to the connecting components





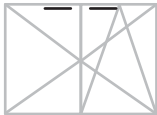
## Sales information

Description	Part number	Surface	Colour	Box quantity
short linkage RB 1RS	TVNL0060-10001_	Titan Silver	without	1 pc
	TVNL0060-10004_	Titan Silver	without	25 pcs
short linkage RB 2RS	TVNL0050-10001_	Titan Silver	without	1 pc
	TVNL0050-10004_	Titan Silver	without	25 pcs

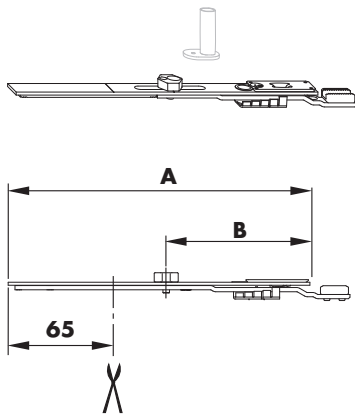


Technical information

Part number	Description	Dimensions (mm)			
		A	B		
TZZS0160-...	linkage AF UE sz 1 1M	200	95	1	2

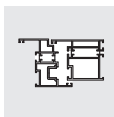
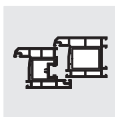


- With magnetic roller for electronic locking and opening monitoring AEROCONTROL (not suitable as a locking point)
- The range of application conforms to the connecting components





Sales information

Description	Part number	Surface	Colour	Box quantity
linkage AF UE sz 1 1M	TZZS0160-10001_	Titan Silver	without	1 pc
	TZZS0160-10004_	Titan Silver	without	25 pcs

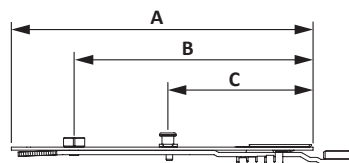
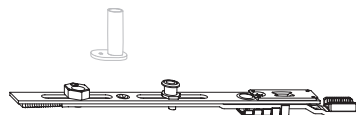


## Technical information

Part number	Description	Dimensions (mm)				
		A	B	C		
TZZS0250-...	linkage AF UE sz 1 1M 1RS	200	158	95	2	3

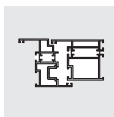
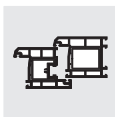


- With magnetic roller for electronic locking and opening monitoring AEROCONTROL.
- The range of application conforms to the connecting components
- Applicable up to RC3





## Sales information

Description	Part number	Surface	Colour	Box quantity
linkage AF UE sz 1 1M 1RS	TZZS0250-10001_	Titan Silver	without	1 pc
	TZZS0250-10004_	Titan Silver	without	25 pcs

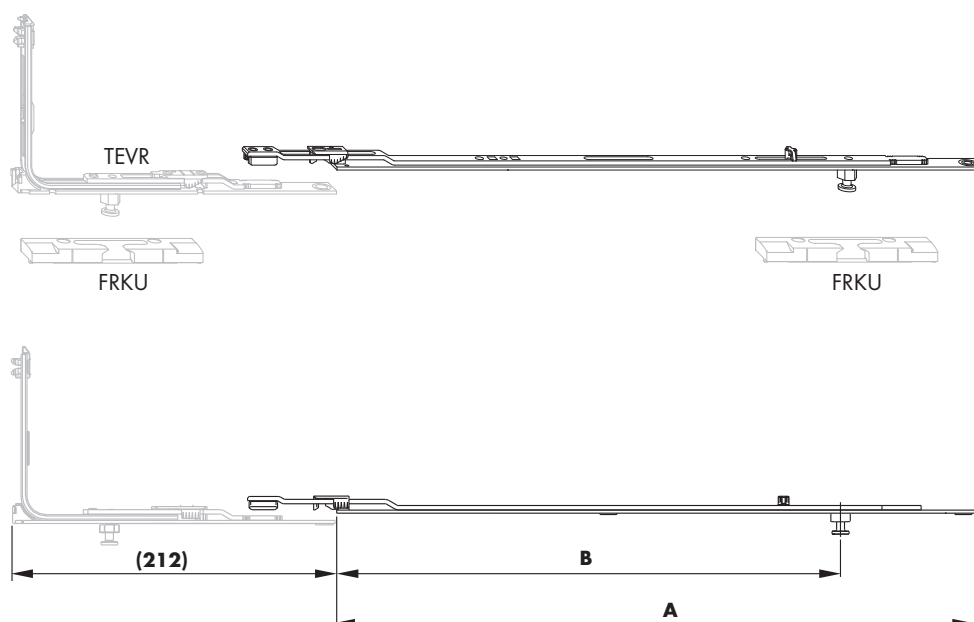


## Technical information

Part number	Description	Dimensions (mm)			
		A	B		
TZUS1090-...	linkage US sz 1 1S A0273	429	340	1	2



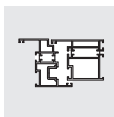
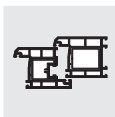
- With extended S-ES cam for thresholds with 10 mm airgap
- In conjunction with the tilt lock bearing SL-S FH, refer to the PDB
- The range of application conforms to the connecting components
- Component can be coupled





## Sales information

Description	Part number	Surface	Colour	Box quantity
linkage US sz 1 1S A0273	TZUS1090-10001_	Titan Silver	without	1 pc
	TZUS1090-10004_	Titan Silver	without	25 pcs



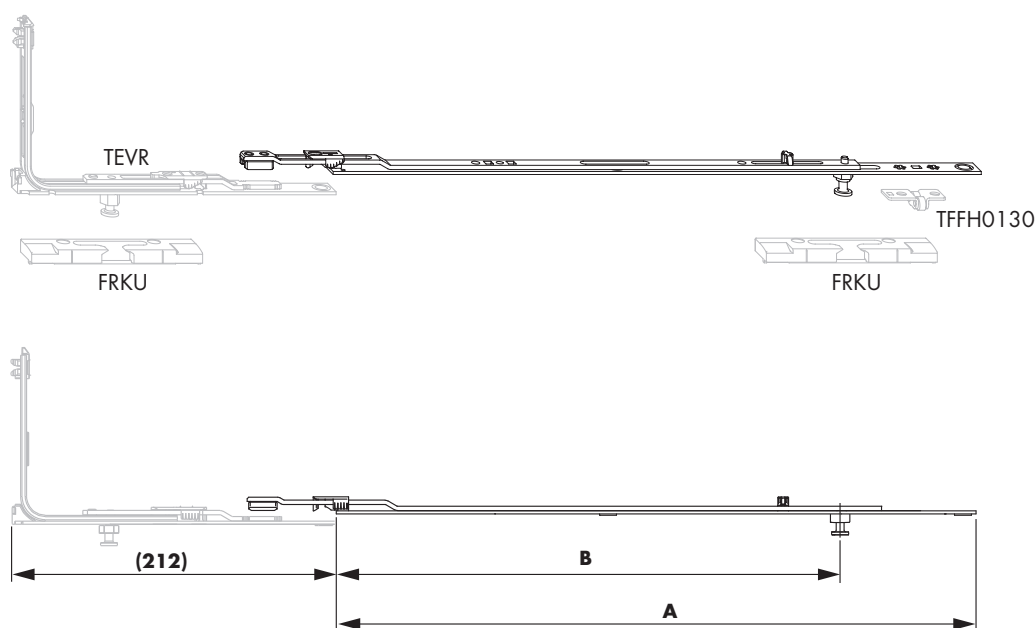


## Technical information

Part number	Description	Dimensions (mm)			
		A	B		
TZUS1110-...	linkage US sz.1 FH 1S A0273	429	340	1	2

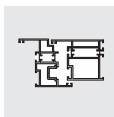
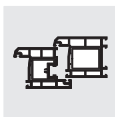


- With striker packer for TFFH sash lifter
- With extended S-ES cam for thresholds with 10 mm airgap
- In conjunction with the tilt lock bearing SL-S FH, refer to the PDB
- Bottom horizontal component cannot be coupled





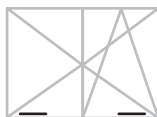
## Sales information

Description	Part number	Surface	Colour	Box quantity
linkage US sz.1 FH 1S A0273	TZUS1110-10001_	Titan Silver	without	1 pc
	TZUS1110-10004_	Titan Silver	without	25 pcs

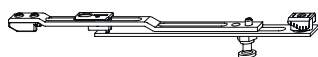


## Technical information

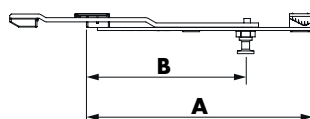
Part number	Description	Dimensions (mm)			
		A	B		
TVSL0420-...	extension sz 2+ 1S A0273	143	98	1	2



- With extended S-ES cam for thresholds with 10 mm airgap
- The range of application conforms to the connecting components

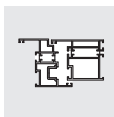
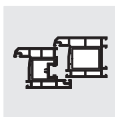


FRKU





## Sales information

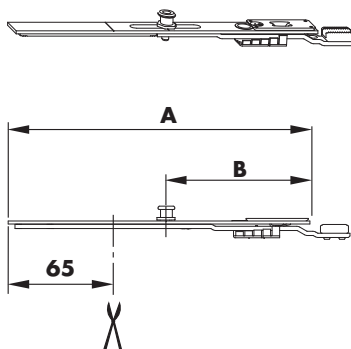
Description	Part number	Surface	Colour	Box quantity
extension sz 2+ 1S A0273	TVSL0420-10001_	Titan Silver	without	1 pc
	TVSL0420-10005_	Titan Silver	without	50 pcs



## Technical information

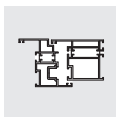
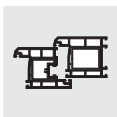
Part number	Description	Dimensions (mm)			
		A	B		
TZZS0200-...	linkage AF sz.1 1RS/A	200	94	1	2

- The range of application conforms to the connecting components





## Sales information

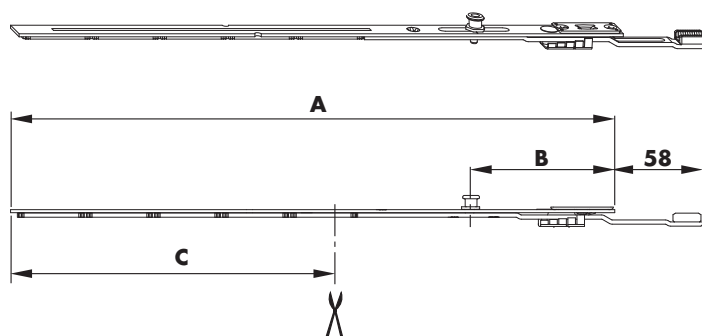
Description	Part number	Surface	Colour	Box quantity
linkage AF sz.1 1RS/A	TZZS0200-10001_	Titan Silver	without	1 pc
	TZZS0200-10004_	Titan Silver	without	25 pcs



## Technical information

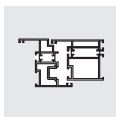
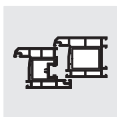
Part number	Description	Dimensions (mm)				
		A	B	C		
TZZS0180-...	linkage AF sz 2 1RS/A	400	95	200	1	3

- The range of application conforms to the connecting components



## Sales information

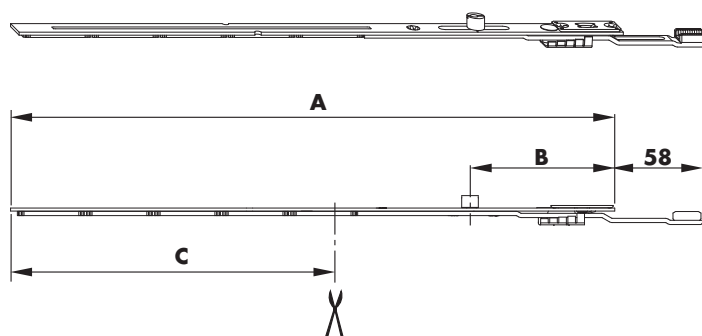
Description	Part number	Surface	Colour	Box quantity
linkage AF sz 2 1RS/A	TZZS0180-10001_	Titan Silver	without	1 pc
	TZZS0180-10004_	Titan Silver	without	25 pcs



## Technical information

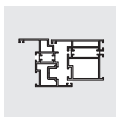
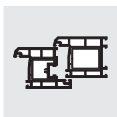
Part number	Description	Dimensions (mm)				
		A	B	C		
TZZS0220-...	linkage AF sz 2 1V/A	400	95	200	1	3

- The range of application conforms to the connecting components



## Sales information

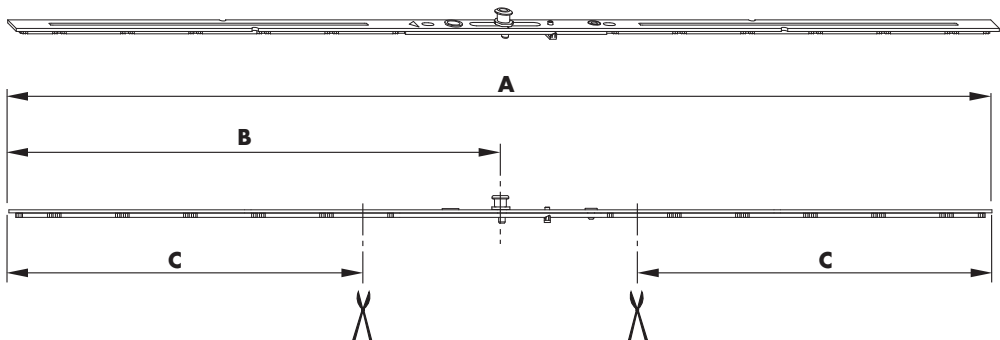
Description	Part number	Surface	Colour	Box quantity
linkage AF sz 2 1V/A	TZZS0220-10001_	Titan Silver	without	1 pc
	TZZS0220-10004_	Titan Silver	without	25 pcs



Technical information

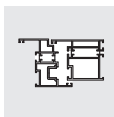
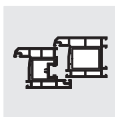
Part number	Description	Dimensions (mm)				
		A	B	C		
TZZZ0010-...	linkage AF ZZ	650	325	200	1	1

- The range of application conforms to the connecting components




Sales information

Description	Part number	Surface	Colour	Box quantity
linkage AF ZZ	TZZZ0010-10001_	Titan Silver	without	1 pc
	TZZZ0010-10004_	Titan Silver	without	25 pcs

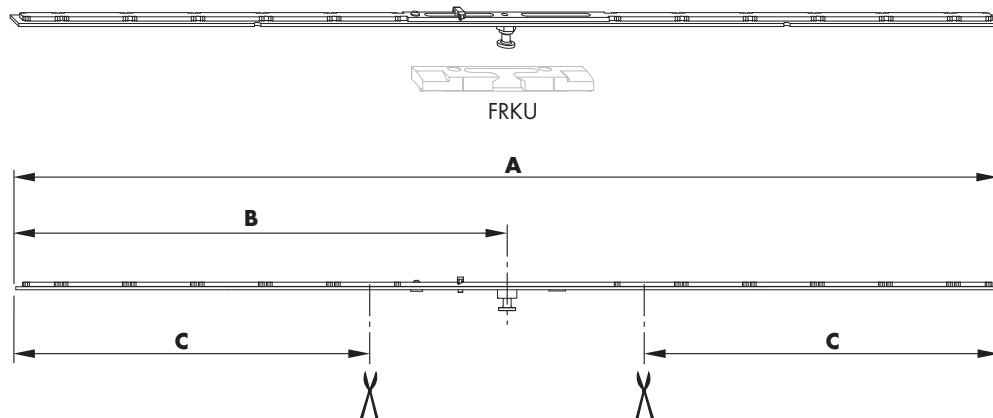


## Technical information

Part number	Description	Dimensions (mm)				
		A	B	C		
TZZZ0030-...	linkage AF ZZ 1S A0273	650	325	200	1	1

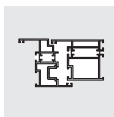
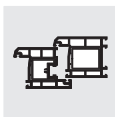


- With extended S-ES cam for thresholds with 10 mm airgap
- In conjunction with the tilt lock bearing SL-S FH, refer to the PDB
- The range of application conforms to the connecting components



## Sales information

Description	Part number	Surface	Colour	Box quantity
linkage AF ZZ 1S A0273	TZZZ0030-10001_	Titan Silver	without	1 pc
	TZZZ0030-10004_	Titan Silver	without	25 pcs

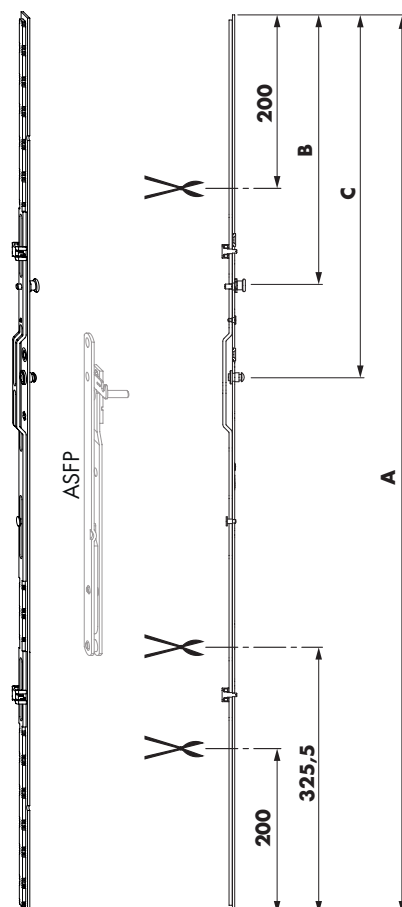


## Technical information

Part number	Description	Dimensions (mm)				
		A	B	C		
TZZZ0040-...	linkage FPS/ZZ 1RS	971	325	406	1	5



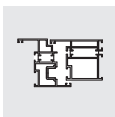
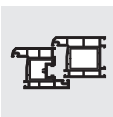
- Can be used in combination with ASFP tilt-only safety stay
- For high tilt sashes with rebate heights from 800mm
- The range of application conforms to the connecting components



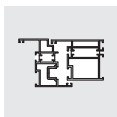
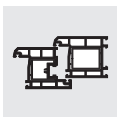
## Sales information

Description	Part number	Surface	Colour	Box quantity
linkage FPS/ZZ 1RS	TZZZ0040-10001_	Titan Silver	without	1 pc
	TZZZ0040-10004_	Titan Silver	without	25 pcs





Description	Material	Page
stay AF	TSKK2000, TSKK2010, TSKK2020, TSKK2120, TSKK2030, TSKK2040	5 - 3
stay AF TBT	TSKT2000, TSKT2010, TSKT2120, TSKT2030, TSKT2040	5 - 5
stay AF SP	TSKL2011, TSKL2012, TSKL2021, TSKL2022, TSKL2031, TSKL2032, TSKL2041, TSKL2042	5 - 6
additional stay AF	TSZS0010, TSZS0030, TSZS0020	5 - 8
additional stay AF TBT	TSZS0010, TSZS0030, TSZS0020, TZOT1010	5 - 9
comfort stay	TSZS0051, TSZS0052, TSZS0041, TSZS0042	5 - 10
stay DF/MN	TSKD1010	5 - 12
stay DF/ON	TSKD1020	5 - 13
stay RB PVC	TSKR1000, TSKR1020, TSKR1050	5 - 14
stay RB timber	TSKR0010, TSKR0020, TSKR0040, TSKR0050, TSKR0030	5 - 16
crt.add. stay AF RB 1RS	TMZS1070	5 - 19
stay iP/Z	TSZK0011, TSZK0012	5 - 21
telescopic tilt only stay	TSKF0020, TFZB0060, TFZB0050, TFZB0070	5 - 22
tilt only safety stay	ASFP0031, ASFP0032, ASFP0041, ASFP0042, ASFP0131, ASFP0132, ASFP0141, ASFP0142, ZFFP0010	5 - 23
tilt only safety stay	ASFP0211, ASFP0212, ASFP0220, ASFP0230	5 - 25
stay sash part AF	TSSK2050, TSSK2010, TSSK2020, TSSK2120, TSSK2030, TSSK2040	5 - 26
stay sash part DF/A	TSSD1000, TSSD1010, TSSD1020, TSSD1120, TSSD1030, TSSD1040	5 - 28
stay sash part DF/MN	TSSD0020	5 - 30
stay sash part DF/ON	TSSD0030	5 - 31
stay sash part DF/MN	TSSD0050	5 - 32
stay sash part DF/MN Ø8	TSSD0080	5 - 33
stay arm	TSAK1000, TSAK1010, TSAK1020, TSAK1030	5 - 34

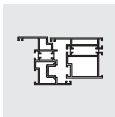
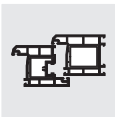


## 5 Stay parts



Directory

**TITAN AF**

Description	Material	Page
stay arm TBT	TSAT1000, TSAT1010, TSAT1020, TSAT1030	5 - 35
stay arm DF	TSAD0010	5 - 36
stay arm DF TITAN PVC	TSAB6020, TSAB6050, TSAB6060	5 - 37

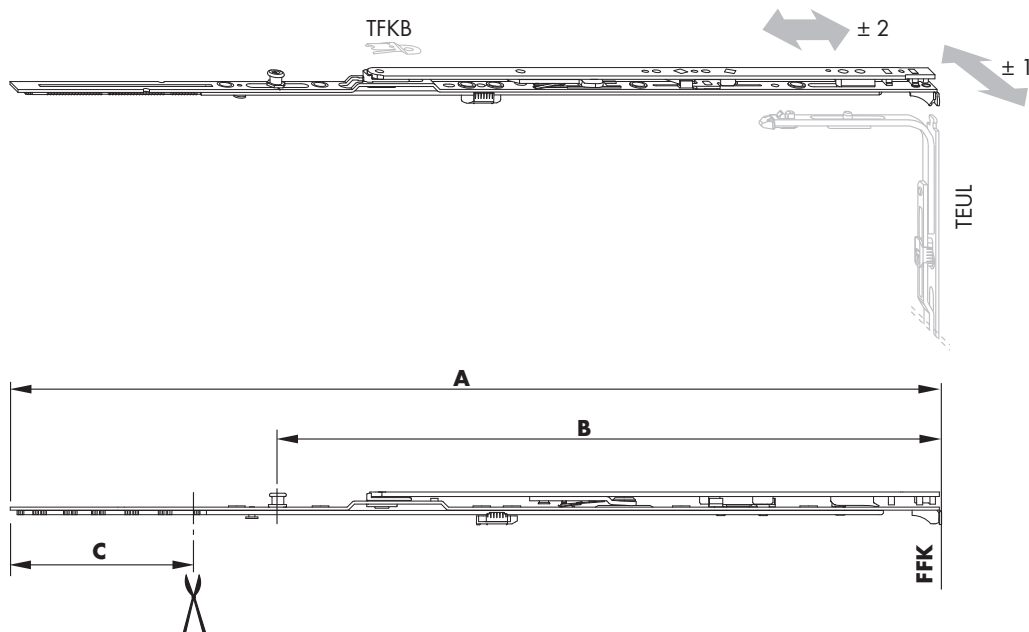


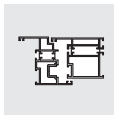
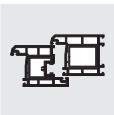
## Technical information

Part number	Description	FFB	Dimensions (mm)				Airgap	sash weight		
			A	B	C	D				
TSKK2000-...	stay AF sz 0	230 - 450	405	-	225	75	12	100 kg	0	2
TSKK2010-...	stay AF sz 1	451 - 680	540	-	252	125	12	130 kg	0	3
TSKK2020-...	stay AF sz 2	681 - 850	740	-	202	140	12	150 kg	0	4
TSKK2120-...	stay AF sz 2 1RS	681 - 850	740	456	202	140	12	150 kg	1	4
TSKK2030-...	stay AF sz 3 1RS	851 - 1050	910	552	202	140	12	150 kg	1	6
TSKK2040-...	stay AF sz 4 1RS	1051 - 1250	1110	552	202	140	12	150 kg	1	7



- Dimension D = opening width
- Please note:  
FFB 1251-1450 stay AF sz 3 with additional stay AF  
FFB 1451-1650 stay AF sz 4 with additional stay AF
- Also suitable for angled head windows up to RC1, max. angle 35°
- Integrated anti-slam device in the tilt position
- Mishandling-device in tilt-position
- **Please observe:**  
Guidelines/notes on the product and on liability (VHBH directive as well as the other applicable documents listed - directive can be downloaded at [www.beschlagindustrie.de/ggsb/richtlinien.asp](http://www.beschlagindustrie.de/ggsb/richtlinien.asp))  
Specifications from the profile manufacturers/system owners (PVC, light metal) or DIN 68 121 "Wooden profiles for windows and portal doors"





## Sales information

Description	Part number	Surface	Colour	Box quantity
stay AF sz 0	TSKK2000-10001_	Titan Silver	without	1 pc
	TSKK2000-10004_	Titan Silver	without	25 pcs
	TSKK2000-10029_	Titan Silver	without	1000 pcs
stay AF sz 1	TSKK2010-10001_	Titan Silver	without	1 pc
	TSKK2010-10004_	Titan Silver	without	25 pcs
	TSKK2010-10027_	Titan Silver	without	800 pcs
stay AF sz 2	TSKK2020-10001_	Titan Silver	without	1 pc
	TSKK2020-10004_	Titan Silver	without	25 pcs
	TSKK2020-10023_	Titan Silver	without	600 pcs
stay AF sz 2 1RS	TSKK2120-10001_	Titan Silver	without	1 pc
	TSKK2120-10004_	Titan Silver	without	25 pcs
stay AF sz 3 1RS	TSKK2030-10001_	Titan Silver	without	1 pc
	TSKK2030-10004_	Titan Silver	without	25 pcs
	TSKK2030-10022_	Titan Silver	without	400 pcs
stay AF sz 4 1RS	TSKK2040-10001_	Titan Silver	without	1 pc
	TSKK2040-10004_	Titan Silver	without	25 pcs
	TSKK2040-10022_	Titan Silver	without	400 pcs



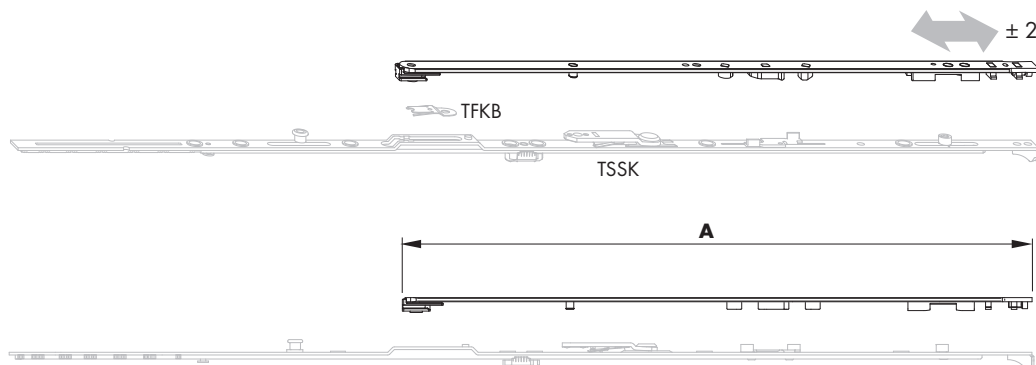
## Technical information

Part number	Description	FFB	Dimensions (mm)		sash weight
			A	B	
TSAT1000-...	stay arm TBT sz 0	230 - 450	167	80	100 kg
TSAT1010-...	stay arm TBT sz 1	451 - 680	252	140	130 kg
TSAT1020-...	stay arm TBT sz 2	681 - 850	378	140	130 kg
TSAT1030-...	stay arm TBT sz 3	851 - 1650	465	140	130 kg



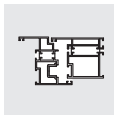
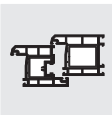
- Dimension B = opening width
- Sequence of operation: TILT before TURN
- Note:  
Use stay arm Gr.3 with stay sash part Gr.3 and Gr.4
- Integrated anti-slam device in the tilt position

- **Please observe:**  
Guidelines/notes on the product and on liability (VHBH directive as well as the other applicable documents listed - directive can be downloaded at [www.beschlagindustrie.de/ggsb/richtlinien.asp](http://www.beschlagindustrie.de/ggsb/richtlinien.asp)) Specifications from the profile manufacturers/system owners (PVC, light metal) or DIN 68 121 "Wooden profiles for windows and portal doors"



## Sales information

Description	Part number	Surface	Colour	Box quantity
stay arm TBT sz 0	TSAT1000-10001_	Titan Silver	without	1 pc
	TSAT1000-10004_	Titan Silver	without	25 pcs
stay arm TBT sz 1	TSAT1010-10001_	Titan Silver	without	1 pc
	TSAT1010-10004_	Titan Silver	without	25 pcs
stay arm TBT sz 2	TSAT1020-10001_	Titan Silver	without	1 pc
	TSAT1020-10004_	Titan Silver	without	25 pcs
stay arm TBT sz 3	TSAT1030-10001_	Titan Silver	without	1 pc
	TSAT1030-10004_	Titan Silver	without	25 pcs

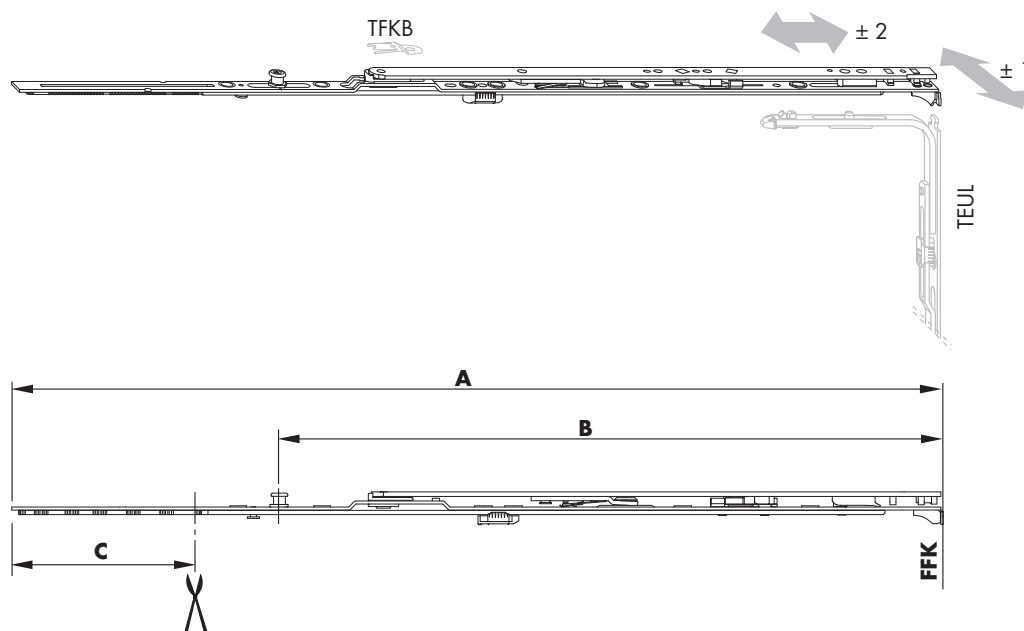


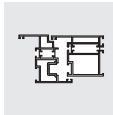
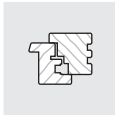
## Technical information

Part number	Description	FFB	Dimensions (mm)			Airgap	sash weight		
			A	B	C				
TSKL2011-...	stay AF SP sz 1 rh.	451 - 680	540	-	250	12	130 kg	0	3
TSKL2012-...	stay AF SP sz 1 lh.	451 - 680	540	-	250	12	130 kg	0	3
TSKL2021-...	stay AF SP sz 2 1RS rh.	681 - 850	740	456	202	12	150 kg	1	4
TSKL2022-...	stay AF SP sz 2 1RS lh.	681 - 850	740	456	202	12	150 kg	1	4
TSKL2031-...	stay AF SP sz 3 1RS rh.	851 - 1050	910	552	202	12	150 kg	1	6
TSKL2032-...	stay AF SP sz 3 1RS lh.	851 - 1050	910	552	202	12	150 kg	1	6
TSKL2041-...	stay AF SP sz 4 1RS rh.	1051 - 1250	1110	552	202	12	150 kg	1	7
TSKL2042-...	stay AF SP sz 4 1RS lh.	1051 - 1250	1110	552	202	12	150 kg	1	7



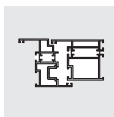
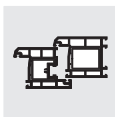
- Night vent
- Please note:  
FFB 1251-1450 stay AF sz 3 with additional stay AF  
FFB 1451-1650 stay AF sz 4 with additional stay AF
- Integrated anti-slam device in the tilt position
- Mishandling-device in tilt-position
- **Please observe:**  
Guidelines/notes on the product and on liability (VHBH directive as well as the other applicable documents listed - directive can be downloaded at [www.beschlagindustrie.de/ggsb/richtlinien.asp](http://www.beschlagindustrie.de/ggsb/richtlinien.asp))  
Specifications from the profile manufacturers/system owners (PVC, light metal) or DIN 68 121 "Wooden profiles for windows and portal doors"






## Sales information

Description	Part number	Surface	Colour	Box quantity
stay AF SP sz 1 rh.	TSKL2011-10001_	Titan Silver	without	1 pc
	TSKL2011-10004_	Titan Silver	without	25 pcs
stay AF SP sz 1 lh.	TSKL2012-10001_	Titan Silver	without	1 pc
	TSKL2012-10004_	Titan Silver	without	25 pcs
stay AF SP sz 2 1RS rh.	TSKL2021-10001_	Titan Silver	without	1 pc
	TSKL2021-10004_	Titan Silver	without	25 pcs
stay AF SP sz 2 1RS lh.	TSKL2022-10001_	Titan Silver	without	1 pc
	TSKL2022-10004_	Titan Silver	without	25 pcs
stay AF SP sz 3 1RS rh.	TSKL2031-10001_	Titan Silver	without	1 pc
	TSKL2031-10004_	Titan Silver	without	25 pcs
stay AF SP sz 3 1RS lh.	TSKL2032-10001_	Titan Silver	without	1 pc
	TSKL2032-10004_	Titan Silver	without	25 pcs
stay AF SP sz 4 1RS rh.	TSKL2041-10001_	Titan Silver	without	1 pc
	TSKL2041-10004_	Titan Silver	without	25 pcs
stay AF SP sz 4 1RS lh.	TSKL2042-10001_	Titan Silver	without	1 pc
	TSKL2042-10004_	Titan Silver	without	25 pcs

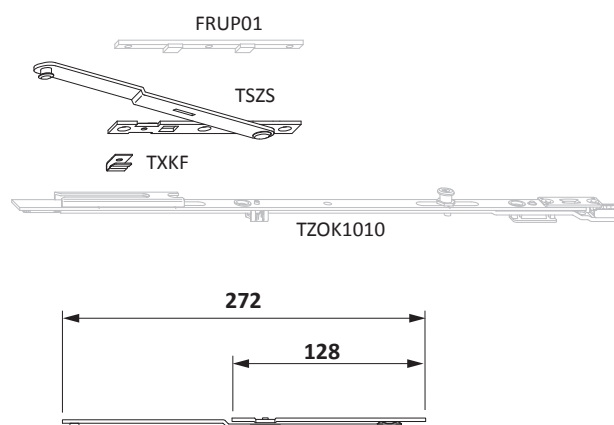


## Technical information

Part number	Description	Airgap	Groove axis	
TSZS0010-...	additional stay 18/9	12	9	3
TSZS0030-...	additional stay 20/9	12	9	6
TSZS0020-...	additional stay 26/13	12	13	3



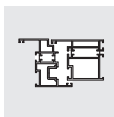
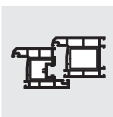
- under consideration of the appropriate application diagrams, a sash weight up to max. 150 kg is possible for timber elements
- Supply of additional stays including clamping spring TXKF
- Packer, refer to PDB line item FRUP01





## Sales information

Description	Part number	Surface	Colour	Box quantity
additional stay 18/9	TSZS0010-10001_	Titan Silver	without	1 pc
	TSZS0010-10005_	Titan Silver	without	50 pcs
additional stay 20/9	TSZS0030-10001_	Titan Silver	without	1 pc
	TSZS0030-10005_	Titan Silver	without	50 pcs
additional stay 26/13	TSZS0020-10001_	Titan Silver	without	1 pc
	TSZS0020-10005_	Titan Silver	without	50 pcs



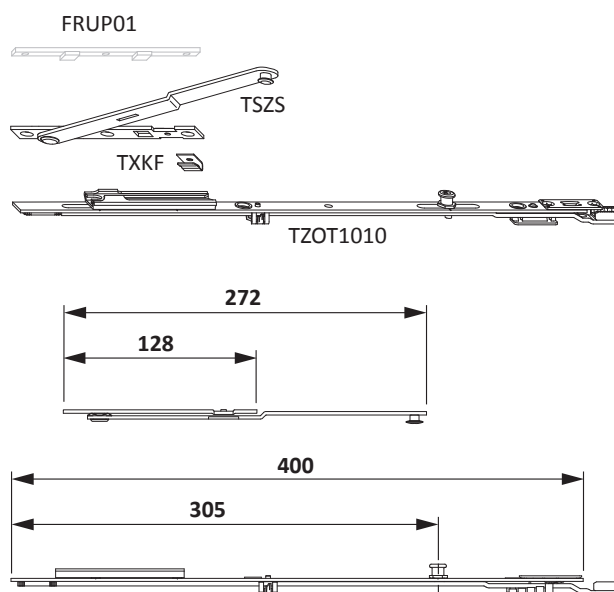


## Technical information

Part number	Description	FFB	Airgap	Groove axis		
TSZS0010-...	additional stay 18/9	-	12	9	-	3
TSZS0030-...	additional stay 20/9	-	12	9	-	6
TSZS0020-...	additional stay 26/13	-	12	13	-	3
TZOT1010-...	linkage add. stay AF TBT RS	1251 - 1650	-	-	2	3

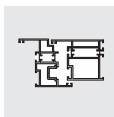
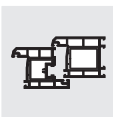


- under consideration of the appropriate application diagrams, a sash weight up to max. 150 kg is possible for timber elements
- Supply of additional stays including clamping spring TXKF
- Packer, refer to PDB line item FRUP01
- Please observe:**  
Guidelines/notes on the product and on liability (VHBH directive as well as the other applicable documents listed - directive can be downloaded at [www.beschlagindustrie.de/ggsb/richtlinien.asp](http://www.beschlagindustrie.de/ggsb/richtlinien.asp))  
Specifications from the profile manufacturers/system owners (PVC, light metal) or DIN 68 121 "Wooden profiles for windows and portal doors"



## Sales information

Description	Part number	Surface	Colour	Box quantity
additional stay 18/9	TSZS0010-10001_	Titan Silver	without	1 pc
	TSZS0010-10005_	Titan Silver	without	50 pcs
additional stay 20/9	TSZS0030-10001_	Titan Silver	without	1 pc
	TSZS0030-10005_	Titan Silver	without	50 pcs
additional stay 26/13	TSZS0020-10001_	Titan Silver	without	1 pc
	TSZS0020-10005_	Titan Silver	without	50 pcs
linkage add. stay AF TBT RS	TZOT1010-10001_	Titan Silver	without	1 pc
	TZOT1010-10004_	Titan Silver	without	25 pcs



## Technical information

Part number	Description	FFB	Dimensions (mm)		Airgap	Groove axis		
			A	B				
TSZS0051-...	comfort stay sz 0 rh.	900 - 1650	-	-	12	13	-	3
TSZS0052-...	comfort stay sz 0 lh.	900 - 1650	-	-	12	13	-	3
TSZS0041-...	comfort stay sz 1 rh.	900 - 1650	-	-	12	13	-	3
TSZS0042-...	comfort stay sz 1 lh.	900 - 1650	-	-	12	13	-	3
TZOK1030-...	linkage additional stay sz 1	900 - 1250	200	-	-	-	1	2
TZOK1010-...	linkage additional stay 1RS	1251 - 1650	400	305	-	-	2	3



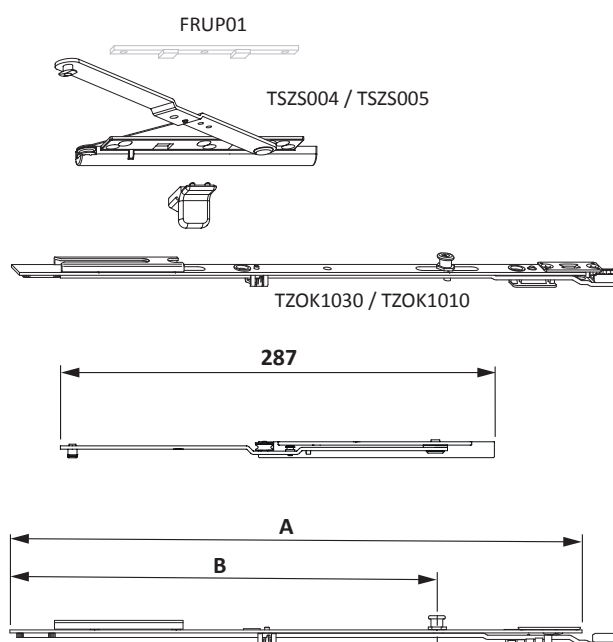
- Opening width = 140 mm
- If using the comfort stay a mishandling device must be put in.
- The airgap given above refers to 12<sup>+1</sup> mm.
- Packer, refer to PDB line item FRUP01
- The assembly aid is included in the scope of delivery.
- Not suitable for TBT.
- Reduced effort when closing the sash from the tilt position.
- Reduced rocking when closing the sash from the tilt position.
- You can find a demonstration of the function and installation of the comfort stay here:  
<https://youtu.be/L03qpm3w1Ac>
- Check comfort stay after installation for function / clean engagement and adjust if necessary.

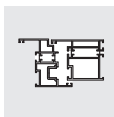
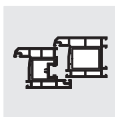
### CAUTION

**The sash can close itself automatically, there is therefore a risk of trapping.**

With sash elements that are too light the comfort stay can pull the sash into the locked position.

- The usage recommendations must be adhered to!
- Usage recommendation for elements with room-side glass focal point:  
Comfort stay 0 for window formats of sash weight 50-70 kg and door formats of sash weight 70-100 kg  
Comfort stay 1 for window formats from sash weight 70 kg and door formats from sash weight 100 kg  
The usage recommendation is to be checked on a case-by-case basis!



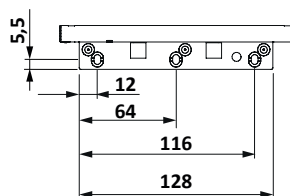


## Sales information

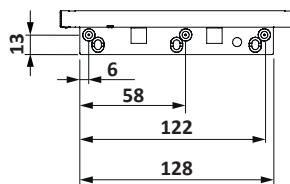
Description	Part number	Surface	Colour	Box quantity
comfort stay sz 0 rh.	TSZS0051-10001_	Titan Silver	without	1 pc
	TSZS0051-10002_	Titan Silver	without	10 pcs
comfort stay sz 0 lh.	TSZS0052-10001_	Titan Silver	without	1 pc
	TSZS0052-10002_	Titan Silver	without	10 pcs
comfort stay sz 1 rh.	TSZS0041-10001_	Titan Silver	without	1 pc
	TSZS0041-10002_	Titan Silver	without	10 pcs
comfort stay sz 1 lh.	TSZS0042-10001_	Titan Silver	without	1 pc
	TSZS0042-10002_	Titan Silver	without	10 pcs
linkage additional stay sz 1	TZOK1030-10001_	Titan Silver	without	1 pc
	TZOK1030-10004_	Titan Silver	without	25 pcs
linkage additional stay 1RS	TZOK1010-10001_	Titan Silver	without	1 pc
	TZOK1010-10004_	Titan Silver	without	25 pcs

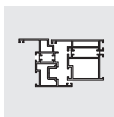
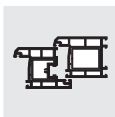
## Drill holes and routings

- Screw positions PVC



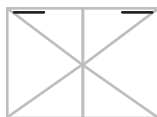
- Screw positions timber 12 mm



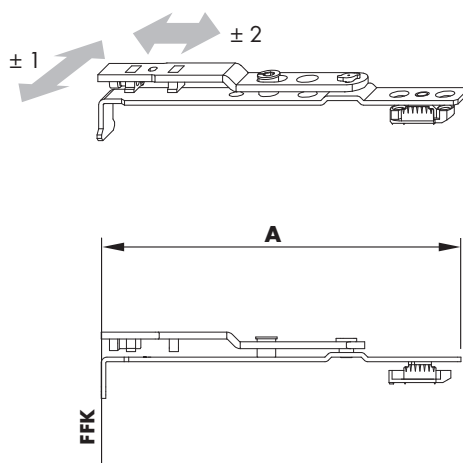


## Technical information

Part number	Description	Dimensions (mm) A	Groove axis	sash weight		
TSKD1010-...	stay DF/MN	157	13/9	130 kg	0	3



- **Please observe:**  
Guidelines/notes on the product and on liability (VHBH directive as well as the other applicable documents listed - directive can be downloaded at [www.beschlagindustrie.de/ggsb/richtlinien.asp](http://www.beschlagindustrie.de/ggsb/richtlinien.asp) )  
Specifications from the profile manufacturers/system owners (PVC, light metal) or DIN 68 121 "Wooden profiles for windows and portal doors"
- **Please observe:**  
Guidelines/notes on the product and on liability (VHBH directive as well as the other applicable documents listed - directive can be downloaded at [www.beschlagindustrie.de/ggsb/richtlinien.asp](http://www.beschlagindustrie.de/ggsb/richtlinien.asp) )  
Specifications from the profile manufacturers/system owners (PVC, light metal) or DIN 68 121 "Wooden profiles for windows and portal doors"
- under consideration of the appropriate application diagrams, a sash weight up to max. 150 kg is possible for timber elements



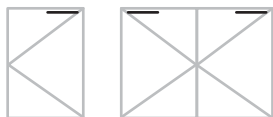
## Sales information

Description	Part number	Surface	Colour	Box quantity
stay DF/MN	TSKD1010-10001_	Titan Silver	without	1 pc
	TSKD1010-10006_	Titan Silver	without	100 pcs

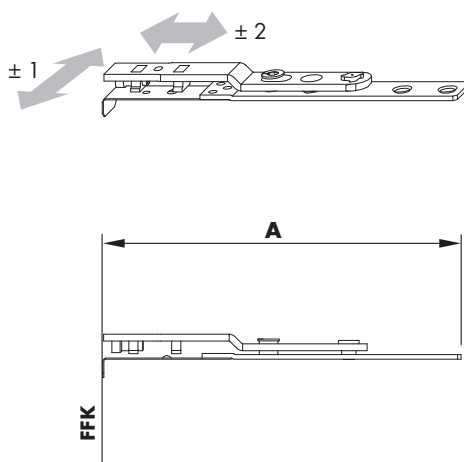


## Technical information

Part number	Description	Dimensions (mm) A	Groove axis	sash weight		
TSKD1020-...	stay DF/ON	157	13/9	130 kg	0	3

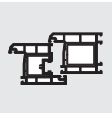


- For sashes without hardware groove
- The range of application conforms to the connecting components
- Please observe:**  
Guidelines/notes on the product and on liability (VHBH directive as well as the other applicable documents listed - directive can be downloaded at [www.beschlagindustrie.de/ggsb/richtlinien.asp](http://www.beschlagindustrie.de/ggsb/richtlinien.asp) )  
Specifications from the profile manufacturers/system owners (PVC, light metal) or DIN 68 121 "Wooden profiles for windows and portal doors"



## Sales information

Description	Part number	Surface	Colour	Box quantity
stay DF/ON	TSKD1020-10001_	Titan Silver	without	1 pc
	TSKD1020-10006_	Titan Silver	without	100 pcs

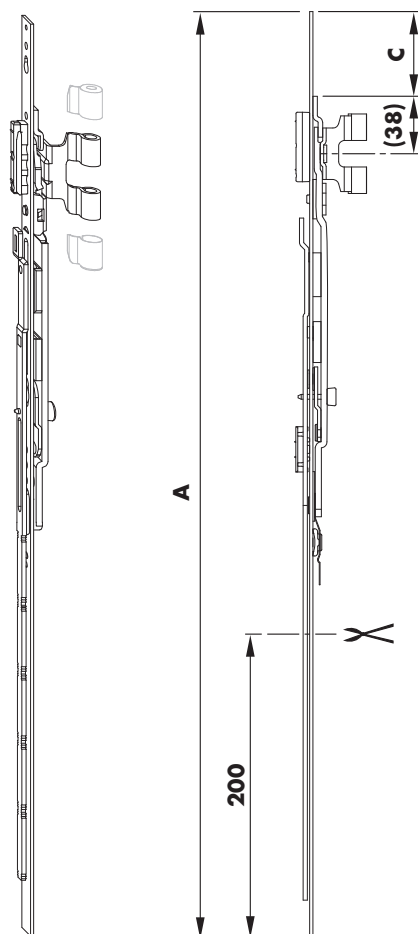


## Technical information

Part number	Description	FFH/AB	Dimensions (mm)		Airgap	rebate width	Groove axis	sash weight	
			A	C					
TSKR1000-...	stay RB PVC 12/18-9	485 - 2150	596	56	12	18	9	80 kg	6
TSKR1020-...	stay RB PVC 12/20-9	485 - 2150	596	56	12	20	9	80 kg	6
TSKR1050-...	stay RB PVC 12/20-13	485 - 2150	596	56	12	20	13	80 kg	6



- Dimension C = Marking for the start of the arch
- Cover caps – see bag FAVORIT-RB (pivot point components)
- Also suitable for angled head windows up to a 45° angle
- **Please observe:**  
Guidelines/notes on the product and on liability (VHBH directive as well as the other applicable documents listed - directive can be downloaded at [www.beschlagindustrie.de/ggsb/richtlinien.asp](http://www.beschlagindustrie.de/ggsb/richtlinien.asp) )  
Specifications from the profile manufacturers/system owners (PVC, light metal) or DIN 68 121 “Wooden profiles for windows and portal doors”



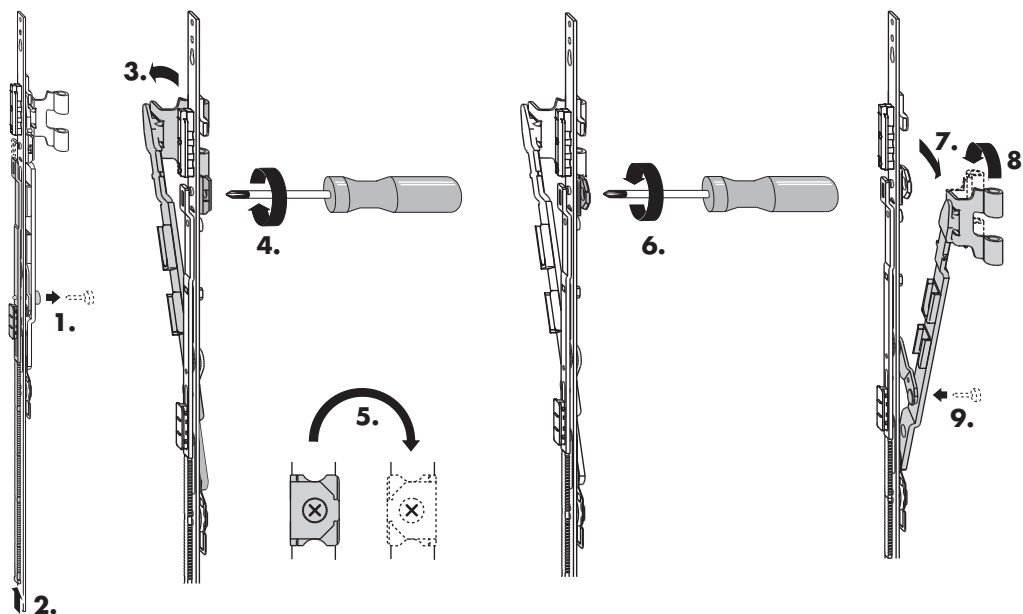


## Sales information

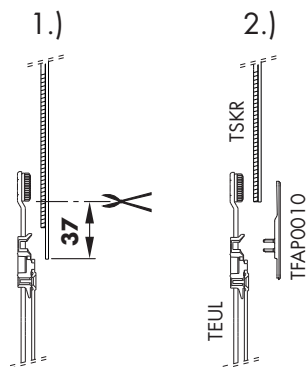
Description	Part number	Surface	Colour	Box quantity
stay RB PVC 12/18-9	TSKR1000-10001_	Titan Silver	without	1 pc
	TSKR1000-10004_	Titan Silver	without	25 pcs
stay RB PVC 12/20-9	TSKR1020-10001_	Titan Silver	without	1 pc
	TSKR1020-10004_	Titan Silver	without	25 pcs
stay RB PVC 12/20-13	TSKR1050-10001_	Titan Silver	without	1 pc
	TSKR1050-10004_	Titan Silver	without	25 pcs
	TSKR1050-1H404_	Titan Silver	F9 titan m dark	25 pcs

## Installation advice

- Converting the stay RB from DIN right to DIN left
  - Remove the fixing.
  - Push the drive rod upwards.
  - Swivel the stay arm into the tilt-position.
  - Loosen the screw (approx. 2 full turns) on the supporting piece.
  - Rotate the supporting piece 180°.
  - Retighten the screw on the supporting piece.
  - Swivel the stay arm over to the other side.
  - Rotate the stay hinge 180°.
  - Close the stay arm and remount the fixing bolt.




- Cropping situation TITAN AF





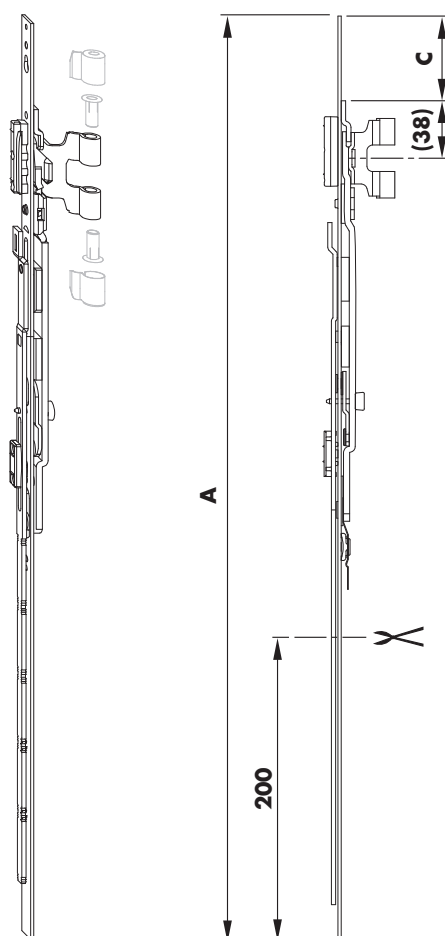
## Technical information

Part number	Description	Airgap	rebate width	Groove axis	sash weight	
TSKR0020-...	stay RB timber 12/18-9	12	18	9	80 kg	6
TSKR0020-...	stay RB timber 12/18-9	12	18	9	80 kg	6
TSKR0040-...	stay RB timber 12/18-13	12	18	13	80 kg	6
TSKR0040-...	stay RB timber 12/18-13	12	18	13	80 kg	6
TSKR0030-...	stay RB timber 12/20-13	12	20	13	80 kg	6
TSKR0030-...	stay RB timber 12/20-13	12	20	13	80 kg	6



- Dimension C = Marking for the start of the arch
- Cover caps – see bag FAVORIT-RB (pivot point components)
- Also suitable for angled head windows up to a 45° angle

- **Please observe:**  
Guidelines/notes on the product and on liability (VHBH directive as well as the other applicable documents listed - directive can be downloaded at [www.beschlagindustrie.de/ggsb/richtlinien.asp](http://www.beschlagindustrie.de/ggsb/richtlinien.asp) )  
Specifications from the profile manufacturers/system owners (PVC, light metal) or DIN 68 121 "Wooden profiles for windows and portal doors"





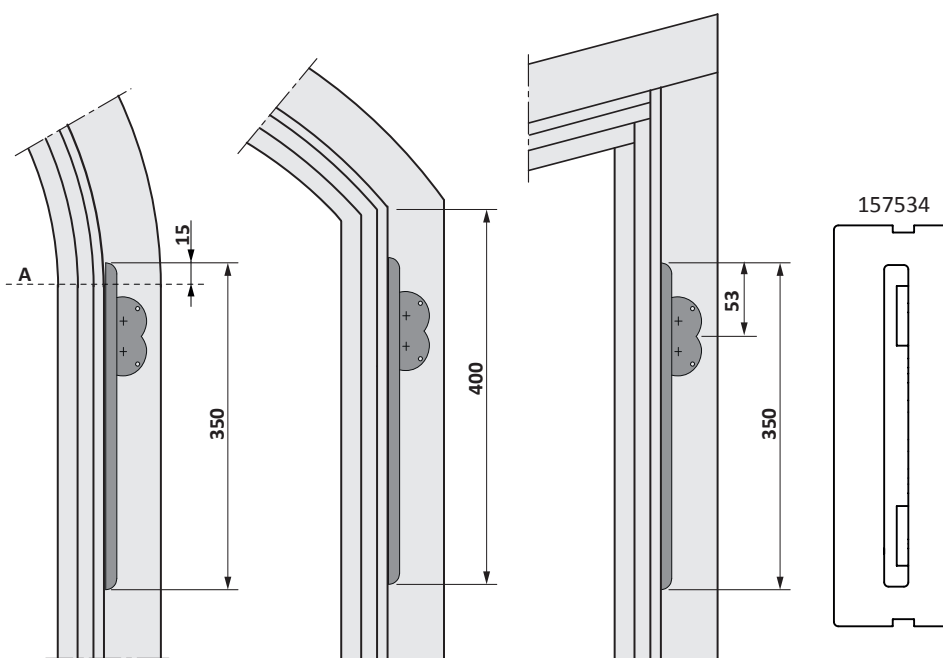


## Sales information

Description	Part number	Surface	Colour	Box quantity
stay RB timber 12/18-9	TSKR0020-10004_	Titan Silver	without	25 pcs
stay RB timber 12/18-9	TSKR0020-10001_	Titan Silver	without	25 pcs
stay RB timber 12/18-13	TSKR0040-10004_	Titan Silver	without	25 pcs
stay RB timber 12/18-13	TSKR0040-10001_	Titan Silver	without	25 pcs
stay RB timber 12/20-13	TSKR0030-10004_	Titan Silver	without	25 pcs
stay RB timber 12/20-13	TSKR0030-10001_	Titan Silver	without	25 pcs

## Drill holes and routings

- Timber 4 mm
- A = Marking for the start of the arch
- Spacer disc  $\varnothing$  27 mm
- Miller  $\varnothing$  16 mm
- Timber route depth 18 mm





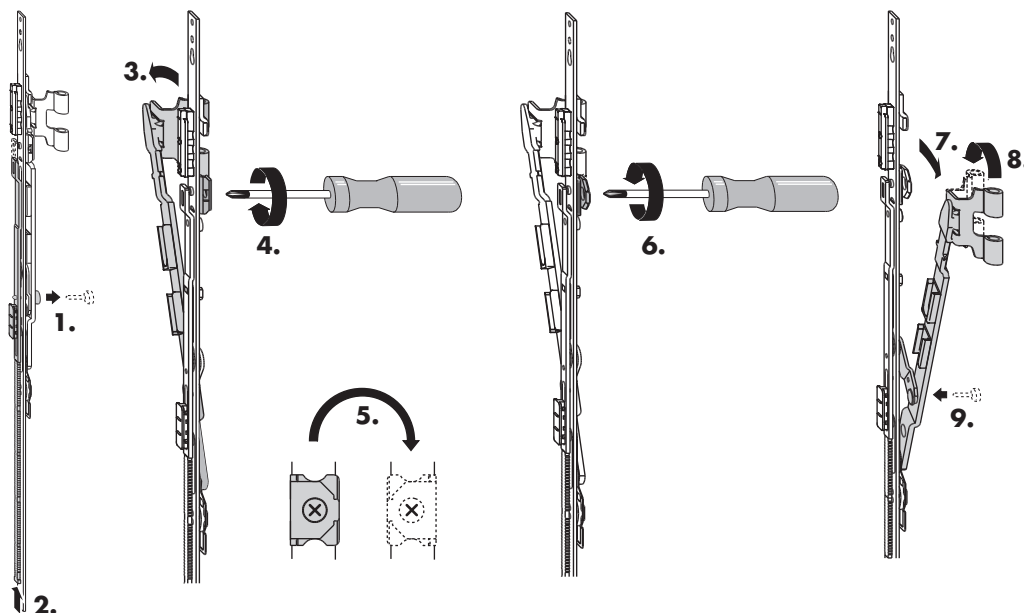
## Installation advice

- Converting the stay RB from DIN right to DIN left

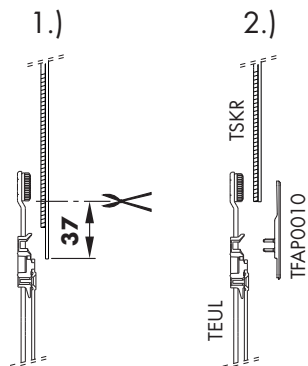
1. Remove the fixing.
2. Push the drive rod upwards.
3. Swivel the stay arm into the tilt-position.
4. Loosen the screw (approx. 2 full turns) on the supporting piece.

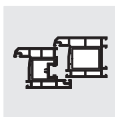
5. Rotate the supporting piece 180°.

6. Retighten the screw on the supporting piece.
7. Swivel the stay arm over to the other side.
8. Rotate the stay hinge 180°.
9. Close the stay arm and remount the fixing bolt.



- Cropping situation TITAN AF



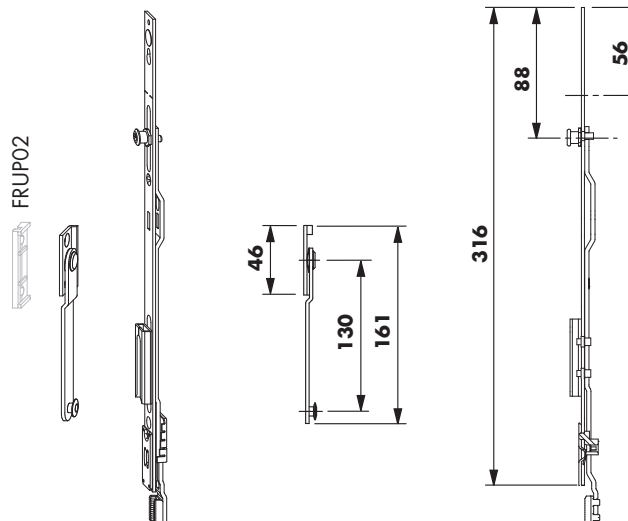


## Technical information

Part number	Description	Airgap
TMZS1070-...	crt. add. stay AF/RB 1RS	12

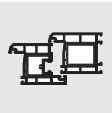


- The range of application conforms to the connecting components
- Packer refer to PDB line item FRUP02
- **Please observe:**  
Guidelines/notes on the product and on liability (VHBH directive as well as the other applicable documents listed - directive can be downloaded at [www.beschlagindustrie.de/ggsb/richtlinien.asp](http://www.beschlagindustrie.de/ggsb/richtlinien.asp) )  
Specifications from the profile manufacturers/system owners (PVC, light metal) or DIN 68 121 "Wooden profiles for windows and portal doors"



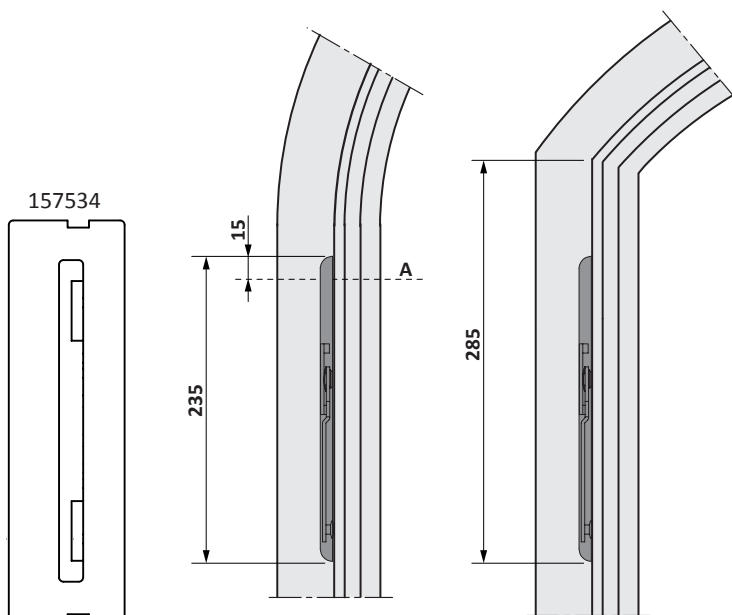
## Sales information

Description	Part number	Surface	Colour	Box quantity
crt. add. stay AF/RB 1RS	TMZS1070-10004_	Titan Silver	without	25 pcs

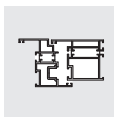
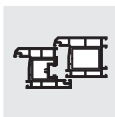


## Drill holes and routings



- Timber 4 mm  
A = Marking for the start of the arch  
Spacer disc  $\varnothing$  27 mm  
Miller  $\varnothing$  16 mm  
Timber route depth 18 mm





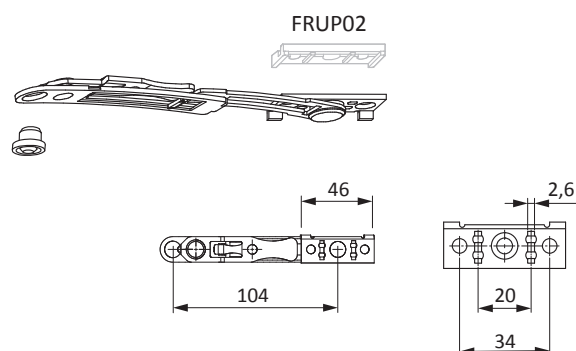


## Technical information

Part number	Description	sash weight		
TSKF0020-...	telescopic tilt only stay (2)	50 kg	0	2
TFZB0060-...	lock.bolt for flat faceplates ..	-	-	-
TFZB0050-...	lock.bolt f.raised ring facepl. ..	-	-	-
TFZB0070-...	lock.bolt+screw f.flat facepl. ..	-	-	-

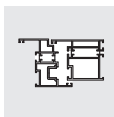
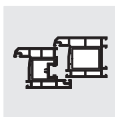


- Minimum component length 110 mm due to telescope arm
- The tilt movement is slowed down
- Packer refer to PDB line item FRUP02
- the Locking bolt must be fixed with a longer screw (min. 4.8x38) for sash weights of up to max. 80 kg
- For sash weights up to max. 80 kg see "80 kg tilt sash" assembly instructions



## Sales information

Description	Part number	Surface	Colour	Box quantity
telescopic tilt only stay (2)	TSKF0020-10001_	Titan Silver	without	1 pc
	TSKF0020-10006_	Titan Silver	without	100 pcs
lock.bolt for flat faceplates ..	TFZB0060-10001_	Titan Silver	without	1 pc
	TFZB0060-10006_	Titan Silver	without	100 pcs
lock.bolt f.raised ring facepl. ..	TFZB0050-10001_	Titan Silver	without	1 pc
	TFZB0050-10006_	Titan Silver	without	100 pcs
lock.bolt+screw f.flat facepl. ..	TFZB0070-10006_	Titan Silver	without	100 pcs

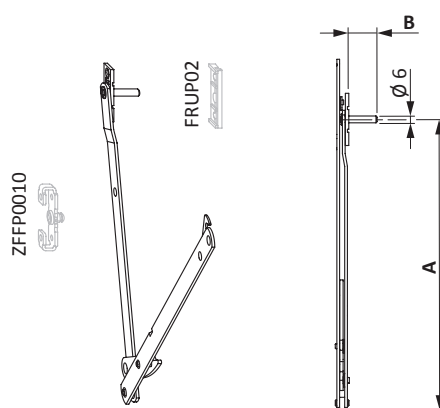


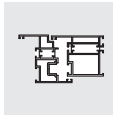
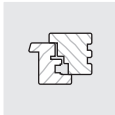
## Technical information

Part number	Description	FFH	Dimensions (mm)		sash weight	
			A	B		
ASFP0031-...	tilt only safety stay 25 sz.1 rh.	350 - 500	163	25	50 kg	2
ASFP0032-...	tilt only safety stay 25 sz.1 lh.	350 - 500	163	25	50 kg	2
ASFP0041-...	tilt only safety stay 25 sz.2 rh.	501 - 800	258	25	50 kg	2
ASFP0042-...	tilt only safety stay 25 sz.2 lh.	501 - 800	258	25	50 kg	2
ASFP0131-...	tilt only safety stay 13 sz.1 rh.	350 - 500	163	13	50 kg	2
ASFP0132-...	tilt only safety stay 13 sz.1 lh.	350 - 500	163	13	50 kg	2
ASFP0141-...	tilt only safety stay 13 sz.2 rh.	501 - 800	258	13	50 kg	4
ASFP0142-...	tilt only safety stay 13 sz.2 lh.	501 - 800	258	13	50 kg	4
ZFFP0010-...	fixing claw	-	-	-	50 kg	2



- Packer refer to PDB line item FRUP02
- Always use two tilt only safety stays per tilt sash
- For sash weights up to max. 80 kg see "80 kg tilt sash" assembly instructions
- **Please observe:**  
Guidelines/notes on the product and on liability (VHBH directive as well as the other applicable documents listed - directive can be downloaded at [www.beschlagindustrie.de/ggsb/richtlinien.asp](http://www.beschlagindustrie.de/ggsb/richtlinien.asp))  
Specifications from the profile manufacturers/system owners (PVC, light metal) or DIN 68 121 "Wooden profiles for windows and portal doors"

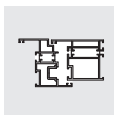
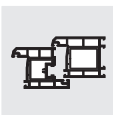




## Sales information

Description	Part number	Surface	Colour	Box quantity
tilt only safety stay 25 sz.1 rh.	ASFP0031-10001_	Titan Silver	without	1 pc
	ASFP0031-10002_	Titan Silver	without	10 pcs
tilt only safety stay 25 sz.1 lh.	ASFP0032-10001_	Titan Silver	without	1 pc
	ASFP0032-10002_	Titan Silver	without	10 pcs
tilt only safety stay 25 sz.2 rh.	ASFP0041-10001_	Titan Silver	without	1 pc
	ASFP0041-10002_	Titan Silver	without	10 pcs
tilt only safety stay 25 sz.2 lh.	ASFP0042-10001_	Titan Silver	without	1 pc
	ASFP0042-10002_	Titan Silver	without	10 pcs
tilt only safety stay 13 sz.1 rh.	ASFP0131-10001_	Titan Silver	without	1 pc
	ASFP0131-10002_	Titan Silver	without	10 pcs
tilt only safety stay 13 sz.1 lh.	ASFP0132-10001_	Titan Silver	without	1 pc
	ASFP0132-10002_	Titan Silver	without	10 pcs
tilt only safety stay 13 sz.2 rh.	ASFP0141-10001_	Titan Silver	without	1 pc
	ASFP0141-10002_	Titan Silver	without	10 pcs
tilt only safety stay 13 sz.2 lh.	ASFP0142-10001_	Titan Silver	without	1 pc
	ASFP0142-10002_	Titan Silver	without	10 pcs
fixing claw	ZFFP0010-10001_	Titan Silver	without	1 pc
	ZFFP0010-10002_	Titan Silver	without	10 pcs



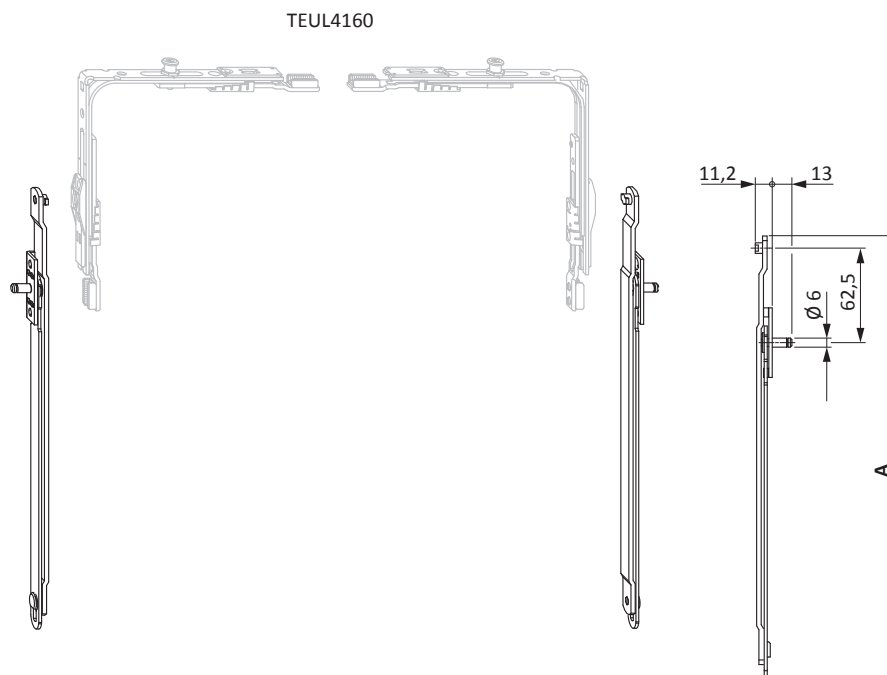


## Technical information

Part number	Description	FFH	Dimensions (mm) A	sash weight
ASFP0211-...	tilt only safety stay sz 1 rh.	250 - 350	123	50 kg
ASFP0212-...	tilt only safety stay sz 1 lh.	250 - 350	123	50 kg
ASFP0220-...	tilt only safety stay sz 2	351 - 450	216	50 kg
ASFP0230-...	tilt only safety stay sz 3	451 - 800	311	50 kg



- Always insert two security stays per tilt sash
- For sash weights up to max. 80 kg see "80 kg tilt sash" assembly instructions
- **Please observe:**  
Guidelines/notes on the product and on liability (VHBH directive as well as the other applicable documents listed - directive can be downloaded at [www.beschlagindustrie.de/ggsb/richtlinien.asp](http://www.beschlagindustrie.de/ggsb/richtlinien.asp) )  
Specifications from the profile manufacturers/system owners (PVC, light metal) or DIN 68 121 "Wooden profiles for windows and portal doors"



## Sales information

Description	Part number	Surface	Colour	Box quantity
tilt only safety stay sz 1 rh.	ASFP0211-10001_	Titan Silver	without	1 pc
	ASFP0211-10004_	Titan Silver	without	25 pcs
tilt only safety stay sz 1 lh.	ASFP0212-10001_	Titan Silver	without	1 pc
	ASFP0212-10004_	Titan Silver	without	25 pcs
tilt only safety stay sz 2	ASFP0220-10001_	Titan Silver	without	1 pc
	ASFP0220-10005_	Titan Silver	without	50 pcs
tilt only safety stay sz 3	ASFP0230-10001_	Titan Silver	without	1 pc
	ASFP0230-10005_	Titan Silver	without	50 pcs

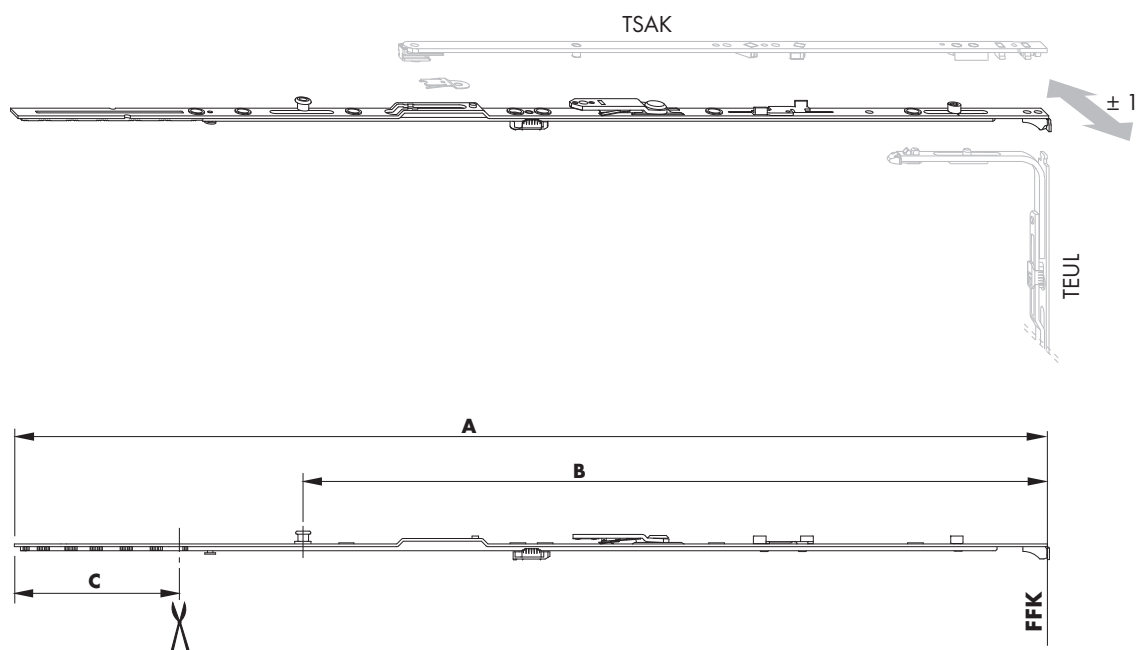


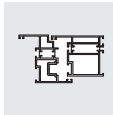
## Technical information

Part number	Description	FFB	Dimensions (mm)			Airgap	sash weight		
			A	B	C				
TSSK2050-...	stay sash part AF sz 0	230 - 450	405	-	225	12	100 kg	0	2
TSSK2010-...	stay sash part AF sz 1	451 - 680	540	-	252	12	130 kg	0	3
TSSK2020-...	stay sash part AF sz 2	681 - 850	740	-	202	12	130 kg	0	4
TSSK2120-...	stay sash part AF sz 2 1RS	681 - 850	740	456	202	12	130 kg	1	4
TSSK2030-...	stay sash part AF sz 3 1RS	851 - 1050	910	552	202	12	130 kg	1	6
TSSK2040-...	stay sash part AF sz 4 1RS	1051 - 1250	1110	552	202	12	130 kg	1	7



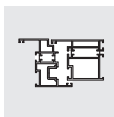
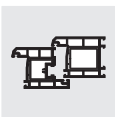
- Please note:  
FFB 1251-1450 stay sash part AF Gr. 3 with additional stay AF  
FFB 1451-1650 stay sash part AF Gr. 4 with additional stay AF
- Also suitable for angled head windows up to RC1, max. angle 35°
- Mishandling-device in tilt-position
- under consideration of the appropriate application diagrams, a sash weight up to max. 150 kg is possible for timber elements
- **Please observe:**  
Guidelines/notes on the product and on liability (VHBH directive as well as the other applicable documents listed - directive can be downloaded at [www.beschlagindustrie.de/ggsb/richtlinien.asp](http://www.beschlagindustrie.de/ggsb/richtlinien.asp))  
Specifications from the profile manufacturers/system owners (PVC, light metal) or DIN 68 121 "Wooden profiles for windows and portal doors"





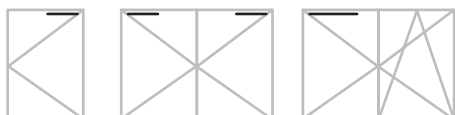
## Sales information

Description	Part number	Surface	Colour	Box quantity
stay sash part AF sz 0	TSSK2050-10001_	Titan Silver	without	1 pc
	TSSK2050-10004_	Titan Silver	without	25 pcs
stay sash part AF sz 1	TSSK2010-10001_	Titan Silver	without	1 pc
	TSSK2010-10004_	Titan Silver	without	25 pcs
stay sash part AF sz 2	TSSK2020-10001_	Titan Silver	without	1 pc
	TSSK2020-10004_	Titan Silver	without	25 pcs
stay sash part AF sz 2 1RS	TSSK2120-10001_	Titan Silver	without	1 pc
	TSSK2120-10004_	Titan Silver	without	25 pcs
stay sash part AF sz 3 1RS	TSSK2030-10001_	Titan Silver	without	1 pc
	TSSK2030-10004_	Titan Silver	without	25 pcs
stay sash part AF sz 4 1RS	TSSK2040-10001_	Titan Silver	without	1 pc
	TSSK2040-10004_	Titan Silver	without	25 pcs

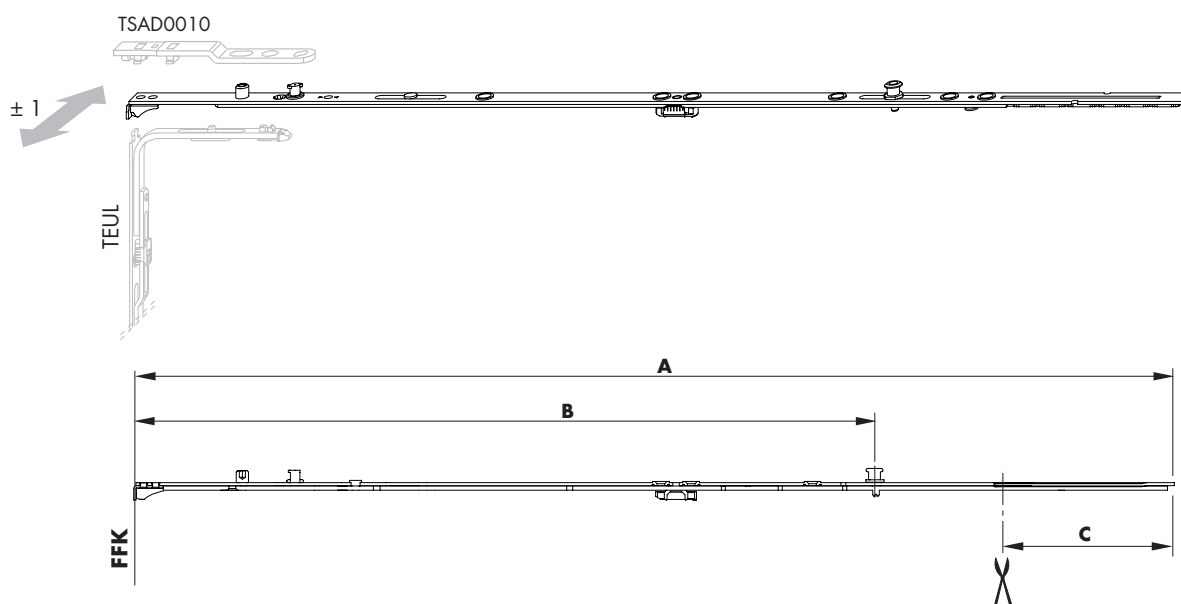


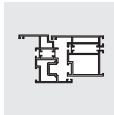
## Technical information

Part number	Description	FFB	Dimensions (mm)			Airgap	sash weight		
			A	B	C				
TSSD1000-...	stay sash part DF/A sz 0	230 - 450	405	-	225	12	130 kg	0	2
TSSD1010-...	stay sash part DF/A sz 1	451 - 680	540	-	200	12	130 kg	0	3
TSSD1020-...	stay sash part DF/A sz 2	681 - 850	740	-	200	12	130 kg	0	4
TSSD1120-...	stay sash part DF/A sz 2 1RS	681 - 850	740	456	200	12	130 kg	1	4
TSSD1030-...	stay sash part DF/A sz 3 1RS	851 - 1050	910	552	200	12	130 kg	1	6
TSSD1040-...	stay sash part DF/A sz 4 1RS	1051 - 1250	1110	552	200	12	130 kg	1	7



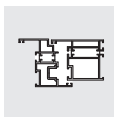
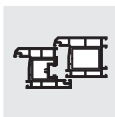
- The range of application conforms to the connecting components
- Please observe:**  
Guidelines/notes on the product and on liability (VHBH directive as well as the other applicable documents listed - directive can be downloaded at [www.beschlagindustrie.de/ggsb/richtlinien.asp](http://www.beschlagindustrie.de/ggsb/richtlinien.asp) )  
Specifications from the profile manufacturers/system owners (PVC, light metal) or DIN 68 121 "Wooden profiles for windows and portal doors"






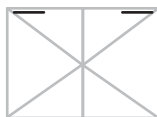
## Sales information

Description	Part number	Surface	Colour	Box quantity
stay sash part DF/A sz 0	TSSD1000-10001_	Titan Silver	without	1 pc
	TSSD1000-10004_	Titan Silver	without	25 pcs
stay sash part DF/A sz 1	TSSD1010-10001_	Titan Silver	without	1 pc
	TSSD1010-10004_	Titan Silver	without	25 pcs
stay sash part DF/A sz 2	TSSD1020-10001_	Titan Silver	without	1 pc
	TSSD1020-10004_	Titan Silver	without	25 pcs
stay sash part DF/A sz 2 1RS	TSSD1120-10001_	Titan Silver	without	1 pc
	TSSD1120-10004_	Titan Silver	without	25 pcs
stay sash part DF/A sz 3 1RS	TSSD1030-10001_	Titan Silver	without	1 pc
	TSSD1030-10004_	Titan Silver	without	25 pcs
stay sash part DF/A sz 4 1RS	TSSD1040-10001_	Titan Silver	without	1 pc
	TSSD1040-10004_	Titan Silver	without	25 pcs



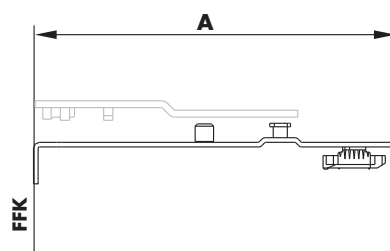
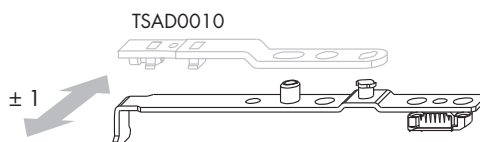
## Technical information

Part number	Description	Dimensions (mm) A	Airgap	sash weight		
TSSD0020-...	stay sash part DF/MN	157	12	130 kg	0	3



- Please observe:**

Guidelines/notes on the product and on liability (VHBH directive as well as the other applicable documents listed - directive can be downloaded at [www.beschlagindustrie.de/ggsb/richtlinien.asp](http://www.beschlagindustrie.de/ggsb/richtlinien.asp) )  
Specifications from the profile manufacturers/system owners (PVC, light metal) or DIN 68 121 "Wooden profiles for windows and portal doors"



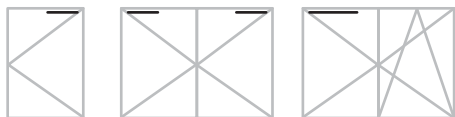
## Sales information

Description	Part number	Surface	Colour	Box quantity
stay sash part DF/MN	TSSD0020-10001_	Titan Silver	without	1 pc
	TSSD0020-10006_	Titan Silver	without	100 pcs

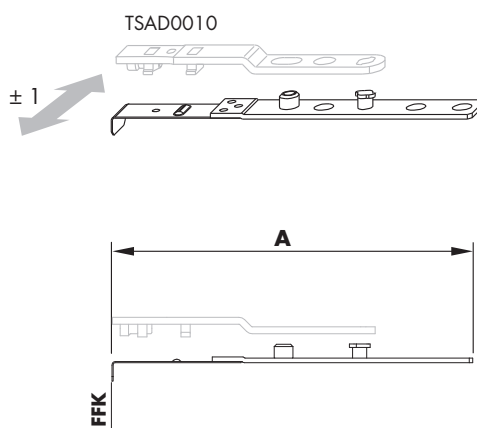


## Technical information

Part number	Description	Dimensions (mm) A	Airgap	sash weight		
TSSD0030-...	stay sash part DF/ON	157	12	130 kg	0	3

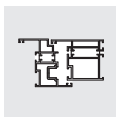
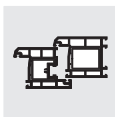


- For sashes without hardware groove
- Please observe:**  
Guidelines/notes on the product and on liability (VHBH directive as well as the other applicable documents listed - directive can be downloaded at [www.beschlagindustrie.de/ggsb/richtlinien.asp](http://www.beschlagindustrie.de/ggsb/richtlinien.asp) )  
Specifications from the profile manufacturers/system owners (PVC, light metal) or DIN 68 121 "Wooden profiles for windows and portal doors"



## Sales information

Description	Part number	Surface	Colour	Box quantity
stay sash part DF/ON	TSSD0030-10001_	Titan Silver	without	1 pc
	TSSD0030-10006_	Titan Silver	without	100 pcs




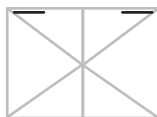
## stay sash part DF/MN

Hinge side TITAN

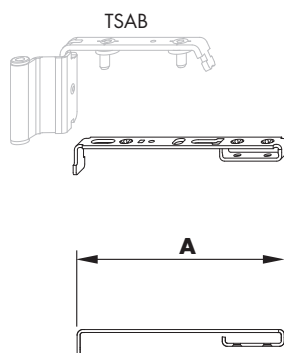
**TITAN AF**

### Technical information

Part number	Description	Dimensions (mm) A	Airgap	sash weight		
TSSD0050-...	stay sash part DF/MN	137	12	130 kg	0	3



- The range of application conforms to the connecting components
- Please observe:**  
Guidelines/notes on the product and on liability (VHBH directive as well as the other applicable documents listed - directive can be downloaded at [www.beschlagindustrie.de/ggsb/richtlinien.asp](http://www.beschlagindustrie.de/ggsb/richtlinien.asp))  
Specifications from the profile manufacturers/system owners (PVC, light metal) or DIN 68 121 "Wooden profiles for windows and portal doors"





### Sales information

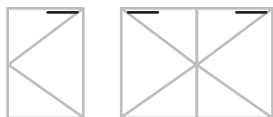
Description	Part number	Surface	Colour	Box quantity
stay sash part DF/MN	TSSD0050-10001_	Titan Silver	without	1 pc
	TSSD0050-10005_	Titan Silver	without	50 pcs



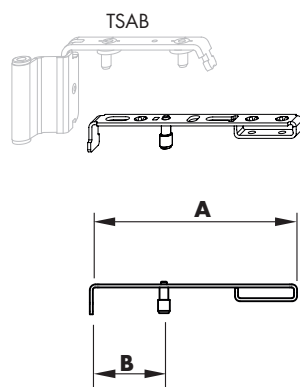


## Technical information

Part number	Description	Dimensions (mm)		Airgap	sash weight		
		A	B				
TSSD0080-...	stay sash part DF/MN D8	137	49	12	130 kg	0	3



- The range of application conforms to the connecting components
- Please observe:**  
Guidelines/notes on the product and on liability (VHBH directive as well as the other applicable documents listed - directive can be downloaded at [www.beschlagindustrie.de/ggsb/richtlinien.asp](http://www.beschlagindustrie.de/ggsb/richtlinien.asp) )  
Specifications from the profile manufacturers/system owners (PVC, light metal) or DIN 68 121 "Wooden profiles for windows and portal doors"



## Sales information

Description	Part number	Surface	Colour	Box quantity
stay sash part DF/MN D8	TSSD0080-10001_	Titan Silver	without	1 pc
	TSSD0080-10005_	Titan Silver	without	50 pcs

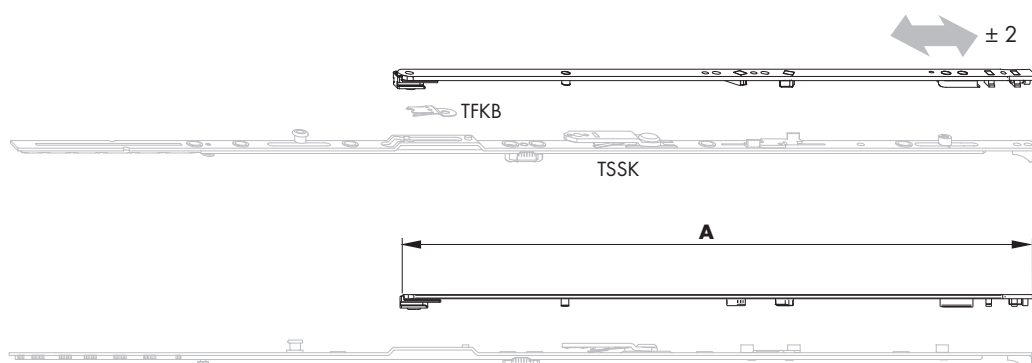


## Technical information

Part number	Description	FFB	Dimensions (mm)		sash weight
			A	B	
TSAK1000-...	stay arm sz 0	230 - 450	167	80	100 kg
TSAK1010-...	stay arm sz 1	451 - 680	252	140	130 kg
TSAK1020-...	stay arm sz 2	651 - 850	378	140	130 kg
TSAK1030-...	stay arm sz 3	851 - 1650	465	140	130 kg



- Dimension B = opening width
- Note:  
Use stay arm Gr.3 with stay sash part Gr.3 and Gr.4
- Integrated anti-slam device in the tilt position
- **Please observe:**  
Guidelines/notes on the product and on liability (VHBH directive as well as the other applicable documents listed - directive can be downloaded at [www.beschlagindustrie.de/ggsb/richtlinien.asp](http://www.beschlagindustrie.de/ggsb/richtlinien.asp)) Specifications from the profile manufacturers/system owners (PVC, light metal) or DIN 68 121 "Wooden profiles for windows and portal doors"



## Sales information

Description	Part number	Surface	Colour	Box quantity
stay arm sz 0	TSAK1000-10001_	Titan Silver	without	1 pc
	TSAK1000-10004_	Titan Silver	without	25 pcs
stay arm sz 1	TSAK1010-10001_	Titan Silver	without	1 pc
	TSAK1010-10004_	Titan Silver	without	25 pcs
	TSAK1010-10042_	Titan Silver	without	2400 pcs
stay arm sz 2	TSAK1020-10001_	Titan Silver	without	1 pc
	TSAK1020-10004_	Titan Silver	without	25 pcs
	TSAK1020-10030_	Titan Silver	without	1200 pcs
stay arm sz 3	TSAK1030-10001_	Titan Silver	without	1 pc
	TSAK1030-10004_	Titan Silver	without	25 pcs
	TSAK1030-10030_	Titan Silver	without	1200 pcs



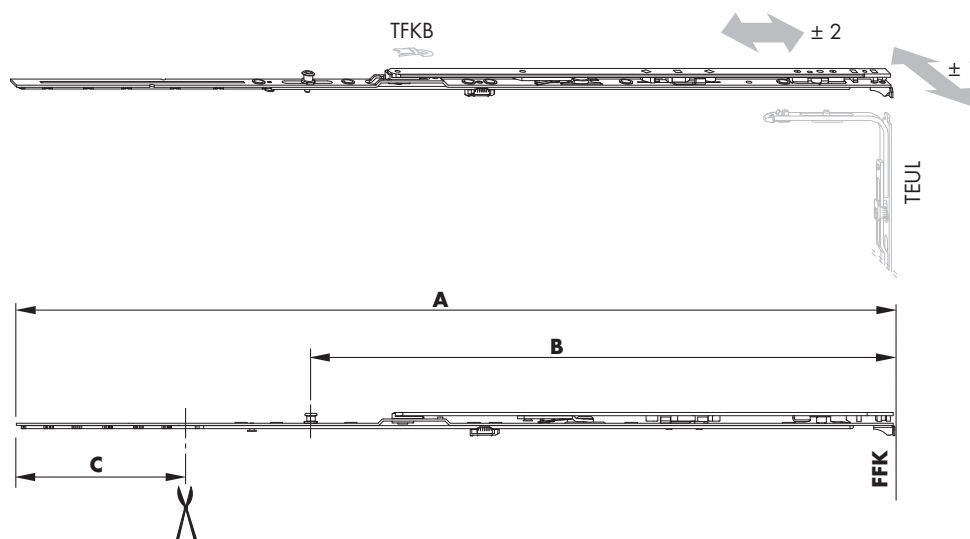
## Technical information

Part number	Description	FFB	Dimensions (mm)				Airgap	sash weight		
			A	B	C	D				
TSKT2000-...	stay AF TBT sz 0	250 - 450	405	-	225	75	12	100 kg	0	2
TSKT2010-...	stay AF TBT sz 1	451 - 680	540	-	252	125	12	130 kg	0	3
TSKT2120-...	stay AF TBT sz 2 1RS	681 - 850	740	456	202	140	12	150 kg	1	4
TSKT2030-...	stay AF TBT sz 3 1RS	851 - 1050	910	552	202	140	12	150 kg	1	6
TSKT2040-...	stay AF TBT sz 4 1RS	1051 - 1250	1110	552	202	140	12	150 kg	1	7



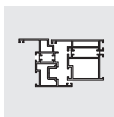
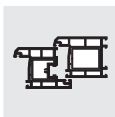
- Dimension D = opening width
- Switching function TBT = TILT BEFORE TURN
- Please note:  
FFB 1251-1450 stay AF sz 3 with additional stay AF  
FFB 1451-1650 stay AF sz 4 with additional stay AF
- Integrated anti-slam device in the tilt position
- Mishandling-device in tilt-position

- **Please observe:**  
Guidelines/notes on the product and on liability (VHBH directive as well as the other applicable documents listed - directive can be downloaded at [www.beschlagindustrie.de/ggsb/richtlinien.asp](http://www.beschlagindustrie.de/ggsb/richtlinien.asp))  
Specifications from the profile manufacturers/system owners (PVC, light metal) or DIN 68 121 "Wooden profiles for windows and portal doors"



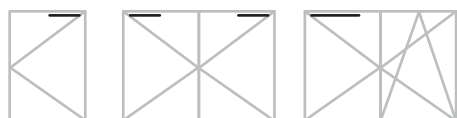
## Sales information

Description	Part number	Surface	Colour	Box quantity
stay AF TBT sz 0	TSKT2000-10001_	Titan Silver	without	1 pc
	TSKT2000-10004_	Titan Silver	without	25 pcs
stay AF TBT sz 1	TSKT2010-10001_	Titan Silver	without	1 pc
	TSKT2010-10004_	Titan Silver	without	25 pcs
stay AF TBT sz 2 1RS	TSKT2120-10001_	Titan Silver	without	1 pc
	TSKT2120-10004_	Titan Silver	without	25 pcs
stay AF TBT sz 3 1RS	TSKT2030-10001_	Titan Silver	without	1 pc
	TSKT2030-10004_	Titan Silver	without	25 pcs
stay AF TBT sz 4 1RS	TSKT2040-10001_	Titan Silver	without	1 pc
	TSKT2040-10004_	Titan Silver	without	25 pcs



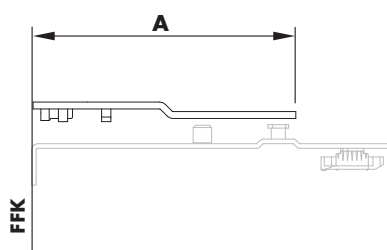
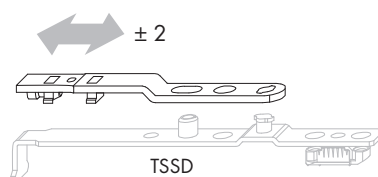
## Technical information

Part number	Description	Dimensions (mm) A	sash weight
TSAD0010-...	stay arm DF	115	130 kg



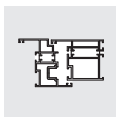
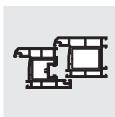
- Please observe:**

Guidelines/notes on the product and on liability (VHBH directive as well as the other applicable documents listed - directive can be downloaded at [www.beschlagindustrie.de/ggsb/richtlinien.asp](http://www.beschlagindustrie.de/ggsb/richtlinien.asp)) Specifications from the profile manufacturers/system owners (PVC, light metal) or DIN 68 121 "Wooden profiles for windows and portal doors"



## Sales information

Description	Part number	Surface	Colour	Box quantity
stay arm DF	TSAD0010-10001_	Titan Silver	without	1 pc
	TSAD0010-10006_	Titan Silver	without	100 pcs



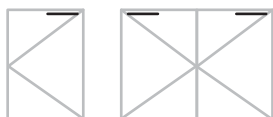
## stay arm DF TITAN PVC

Hinge side TITAN

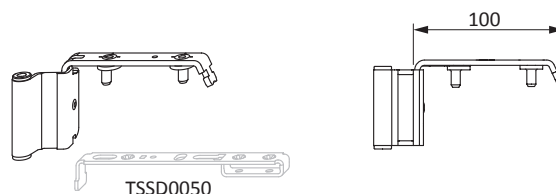
TITAN AF

### Technical information

Part number	Description	Airgap	rebate width	Groove axis	sash weight
TSAB6020-...	stay arm DF TITAN PVC 12/20-9	12	20	9	130 kg
TSAB6050-...	stay arm DF TITAN PVC 12/20-13	12	20	13	130 kg
TSAB6060-...	stay arm DF DH PVC 12/21-13	12	21	13	130 kg

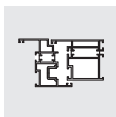
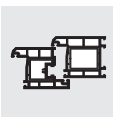


- The range of application conforms to the connecting components
- Please observe:**  
Guidelines/notes on the product and on liability (VHBH directive as well as the other applicable documents listed - directive can be downloaded at [www.beschlagindustrie.de/ggsb/richtlinien.asp](http://www.beschlagindustrie.de/ggsb/richtlinien.asp) )  
Specifications from the profile manufacturers/system owners (PVC, light metal) or DIN 68 121 "Wooden profiles for windows and portal doors"

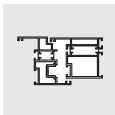
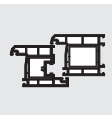


### Sales information

Description	Part number	Surface	Colour	Box quantity
stay arm DF TITAN PVC 12/20-9	TSAB6020-1H401_	Titan Silver	F9 titan m dark	1 pc
stay arm DF TITAN PVC 12/20-13	TSAB6050-10001_	Titan Silver	without	1 pc
	TSAB6050-10005_	Titan Silver	without	50 pcs
	TSAB6050-10401_	Titan Silver	RAL9016	1 pc
	TSAB6050-10405_	Titan Silver	RAL9016	50 pcs
	TSAB6050-1H401_	Titan Silver	F9 titan m dark	1 pc
	TSAB6050-1H405_	Titan Silver	F9 titan m dark	50 pcs
stay arm DF DH PVC 12/21-13	TSAB6060-10401_	Titan Silver	RAL9016	1 pc
	TSAB6060-10405_	Titan Silver	RAL9016	50 pcs
	TSAB6060-1H401_	Titan Silver	F9 titan m dark	1 pc
	TSAB6060-1H405_	Titan Silver	F9 titan m dark	50 pcs



Description	Material	Page
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anti-drill guard 7/8	TGBS0020	6.1 - 5
fastening plate	ZFAP0020	6.1 - 6
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<b>Description</b>	<b>Material</b>	<b>Page</b>
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adjusting key SW4/T15	ZAEW0060	6.1 - 55



## Technical information

Part number	Description
811757	cover profile 200 cm ..
290569	cover profile 100 cm ..



811757 200 cm

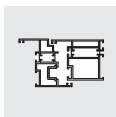
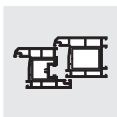


290569 100 m

## Sales information

Description	Part number	Surface	Colour	Box quantity
cover profile 200 cm ..	811757	neutral	RAL9003	1 pc
	209387	neutral	RAL9003	100 pcs
	811740	neutral	RAL8024	1 pc
	209370	neutral	RAL8024	100 pcs
cover profile 100 cm ..	290569	neutral	silver	1 pc

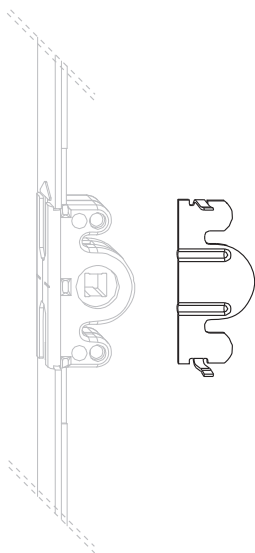




Technical information

Part number	Description
TGBS0010-...	anti-drill guard E

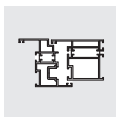
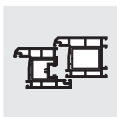
- For gear with backset 15
- Meets the requirement in accordance with DIN EN 1627



6.1

Sales information

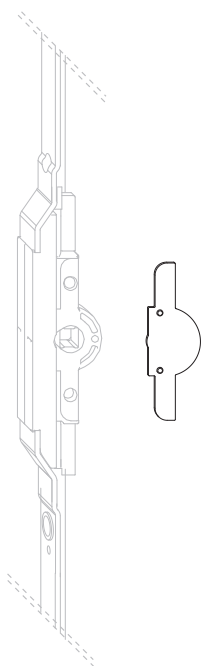
Description	Part number	Surface	Colour	Box quantity
anti-drill guard E	TGBS0010-OG901_	neutral	bronzed	1 pc
	TGBS0010-OG906_	neutral	bronzed	100 pcs



## Technical information

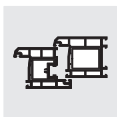
Part number	Description
TGBS0020-...	anti-drill guard E 7/8

- For gear with backset 8
- Meets the requirement in accordance with DIN EN 1627



## Sales information

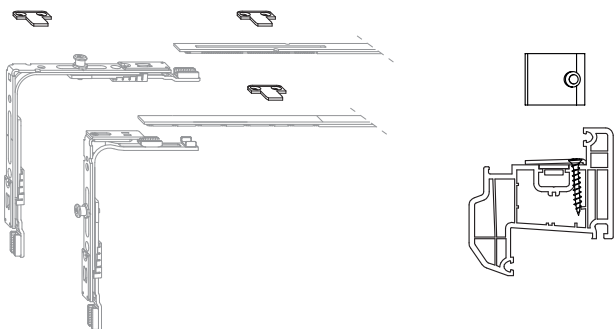
Description	Part number	Surface	Colour	Box quantity
anti-drill guard E 7/8	TGBS0020-0G901_	neutral	bronzed	1 pc
	TGBS0020-0G906_	neutral	bronzed	100 pcs



Technical information

Part number	Description
ZFAP0020-...	fastening plate sec. sash .. A0204

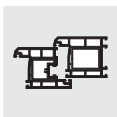
- Applicable in all designs
- Additional fixing, which is screwed next to the eurogroove.



6.1

Sales information

Description	Part number	Surface	Colour	Box quantity
fastening plate sec. sash .. A0204	ZFAP0020-10001_	Titan Silver	without	1 pc
	ZFAP0020-10006_	Titan Silver	without	100 pcs



## Technical information

Part number	Description
TFAP0010-...	cover piece ..

- To connect two components with straight cropped edges



## Sales information

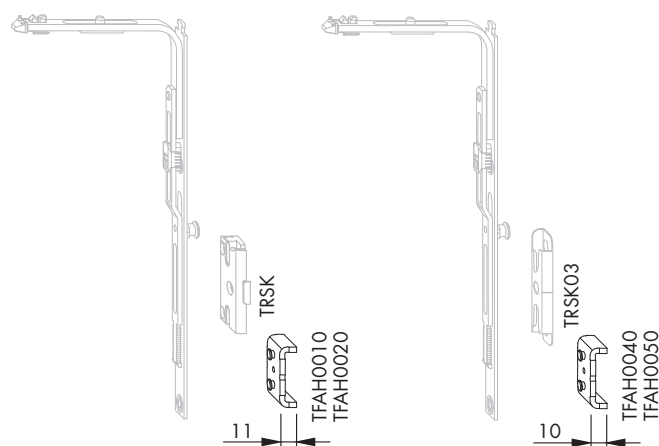
Description	Part number	Surface	Colour	Box quantity
cover piece ..	TFAP0010-10001_	Titan Silver	without	1 pc
	TFAP0010-10006_	Titan Silver	without	100 pcs



## Technical information

Part number	Description
TFAH0040-...	anti-lift device 9/13MM 9
TFAH0050-...	anti-lift device 9/13MM 13

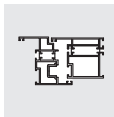
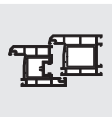
- For RC2
- Striker plate S(L)-RS profile-related, refer to PDB line item TRSK
- Striker plate SL-RS WK2 BSO profile-related, refer to PDB line item TRSK03



## 6.1

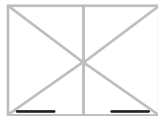
## Sales information

Description	Part number	Surface	Colour	Box quantity
anti-lift device 9/13MM 9	TFAH0040-10001_	Titan Silver	without	1 pc
	TFAH0040-10004_	Titan Silver	without	25 pcs
anti-lift device 9/13MM 13	TFAH0050-10001_	Titan Silver	without	1 pc
	TFAH0050-10004_	Titan Silver	without	25 pcs

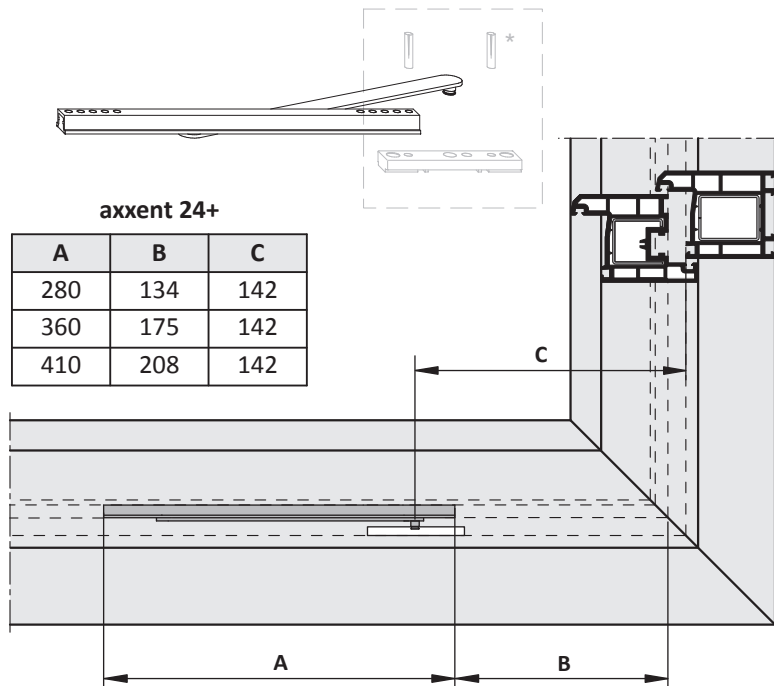


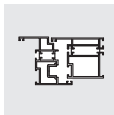
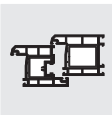
## Technical information

Part number	Description	FFB	Dimensions (mm)					
			A	B	C	D		
704110	friction stay sz 190/126	429 - 800	190	29	45	90	1	4
700693	friction stay sz 280/126	615 - 1200	280	125	117	60	1	4
704127	friction stay sz 280/236,5	615 - 1200	280	125	117	90	1	4
704158	friction stay sz 360/236,5	695 - 1460	360	125	160	60	1	4
704134	friction stay sz 360/270	695 - 1460	360	125	160	90	1	4
FSBR0010-...	friction stay sz 410/300	761 - 1560	410	141	190	90	1	4



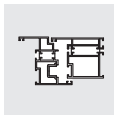
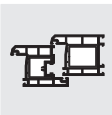
- Adjustable brake effect (SW 2.5)
- Dimension D = opening angle
- Do not use as an opening restrictor!
- \*Acc. bag friction stay refer to PDB line item FMBR
- When using friction stays, the extension parts required for the locking distances must be taken into account
- The break stay sz 190/126 cannot be used in combination with a rebate corner hinge
- When using with hinge side axxent 24+ please observe the following:  
Only use sz. 280/236.5, sz. 360/270 and sz. 410/300 friction stays.  
The dimensions B and C in the above table only apply for surface-mounted hinge sides.  
Please see below for the dimensions for the axxent 24+ hinge side.





## Sales information

Description	Part number	Surface	Colour	Box quantity
friction stay sz 190/126	704110	Titan Silver	without	1 pc
	279939	Titan Silver	without	50 pcs
friction stay sz 280/126	700693	Titan Silver	without	1 pc
	275696	Titan Silver	without	25 pcs
friction stay sz 280/236,5	704127	Titan Silver	without	1 pc
	279946	Titan Silver	without	25 pcs
friction stay sz 360/236,5	704158	Titan Silver	without	1 pc
	279977	Titan Silver	without	25 pcs
friction stay sz 360/270	704134	Titan Silver	without	1 pc
	279953	Titan Silver	without	25 pcs
friction stay sz 410/300	FSBR0010-10001_	Titan Silver	without	1 pc
	FSBR0010-10002_	Titan Silver	without	10 pcs

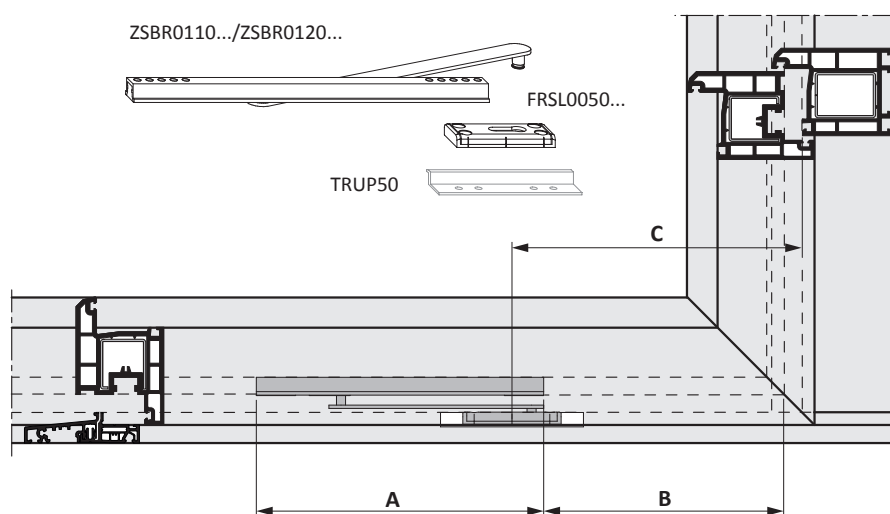


## Technical information

Part number	Description	FFB	Dimensions (mm)				Airgap	Groove axis		
			A	B	C	D				
ZSBR0110-...	BREMSS_AD_190_126 A0273	429 - 800	190	29	57	90	-	-	1	4
ZSBR0120-...	BREMSS_AD_280_236 A0273	615 - 1200	280	125	129	90	-	-	1	4
FRSL0050-...	top hinge block PVC A3550	-	-	-	-	-	12	13	-	4



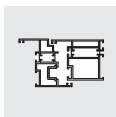
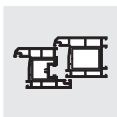
- Suitable for use with threshold
- Adjustable brake effect (SW 2.5)
- Dimension D = opening angle
- Do not use as an opening restrictor!
- Packer, refer to PDB line item TRUP50.
- When using friction stays, the extension parts required for the locking distances must be taken into account
- The break stay sz 190/126 cannot be used in combination with a rebate corner hinge



## Sales information

Description	Part number	Surface	Colour	Box quantity
BREMSS_AD_190_126 A0273	ZSBR0110-10001_	Titan Silver	without	1 pc
	ZSBR0110-10005_	Titan Silver	without	50 pcs
BREMSS_AD_280_236 A0273	ZSBR0120-10001_	Titan Silver	without	1 pc
	ZSBR0120-10004_	Titan Silver	without	25 pcs
top hinge block PVC A3550	FRSL0050-10004_	Titan Silver	without	25 pcs



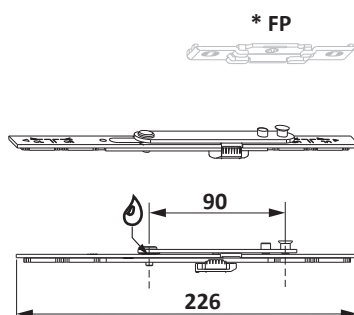


## Technical information

Part number	Description
TMZZ0010-...	side hung night vent SD



- 2 night vent positions
- Suitable catch plate FP  
PVC: FP410 - ...  
timber: FP310 - ...
- Oil moving parts once a year (only use acid and resin free oil)




## Sales information

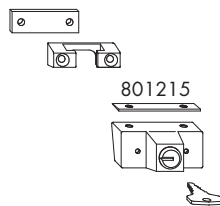
Description	Part number	Surface	Colour	Box quantity
side hung night vent SD	TMZZ0010-10005_	Titan Silver	without	50 pcs



## Technical information

Part number	Description	
ZMDS0040-...	turning lock w. cylinder ..	-
801277	packer turning lock	0
892510	key 2W 145	-

- Lockable in closed and tilt position
- The sash can be tilted when turn lock is activated
- Please order packer and compensation piece 5° 801215 separately
- The key 2 W 145, material number 892510 is included in the box.



## Sales information

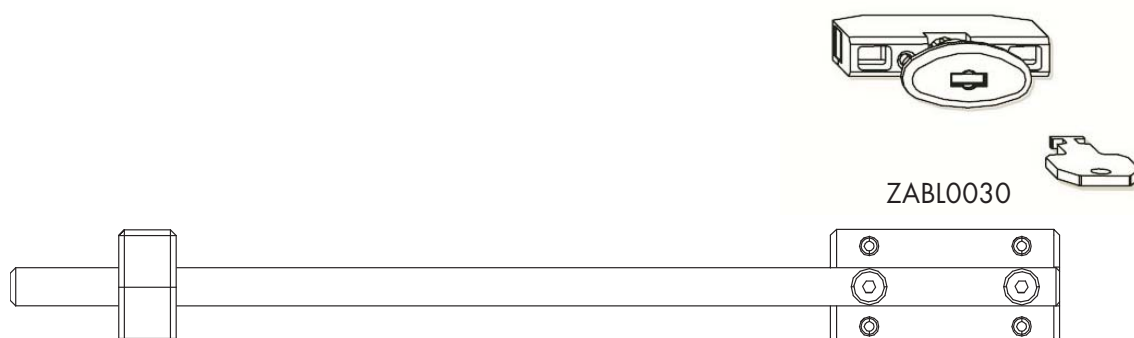
Description	Part number	Surface	Colour	Box quantity
turning lock w. cylinder ..	ZMDS0040-00201_	neutral	RAL9003	1 pc
	ZMDS0040-00205_	neutral	RAL9003	50 pcs
	ZMDS0040-01101_	neutral	RAL8019	1 pc
	ZMDS0040-01105_	neutral	RAL8019	50 pcs
	ZMDS0040-10001_	Titan Silver	without	1 pc
	ZMDS0040-10005_	Titan Silver	without	50 pcs
packer turning lock	801284	neutral	RAL9003	1 pc
	801291	neutral	RAL8019	1 pc
	801277	Titan Silver	without	1 pc
key 2W 145	892510	Titan Silver	without	1 pc



## Technical information

Part number	Description
ZSDS0010-...	key DSV ..
ZMDS0010-...	turning lock concealed ..
ZMDS0030-...	turning lock concealed sz 2 ..
ZMDS0020-...	turning lock concealed ..

- Lockable by means of special key
- When locked, the window cannot be opened in the turn-mode
- Can be retro-fitted regardless of the hardware positioning
- Can be used with standard striker 56
- Use:
  - Insert the key and push against the built-in sprocket
  - Lock the DIN right-hand turning lock with clockwise rotation
  - Lock the DIN left-hand turning lock with counterclockwise rotation
  - Toothed bar locks into the striker plate 56
  - Open by means of counterclockwise rotation of the key



## Sales information

Description	Part number	Surface	Colour	Box quantity
key DSV ..	ZSDS0010-10001_	Titan Silver	without	1 pc
	ZSDS0010-10005_	Titan Silver	without	50 pcs
turning lock concealed ..	ZMDS0010-00401_	neutral	RAL9016	1 pc
	ZMDS0010-00405_	neutral	RAL9016	50 pcs
	ZMDS0010-01101_	neutral	RAL8019	1 pc
	ZMDS0010-01105_	neutral	RAL8019	50 pcs
	ZMDS0010-0F601_	neutral	RAL9006	1 pc
	ZMDS0010-0F605_	neutral	RAL9006	50 pcs
	ZMDS0030-00405_	neutral	RAL9016	50 pcs
turning lock concealed sz 2 ..	ZMDS0030-0F601_	neutral	RAL9006	1 pc
	ZMDS0030-0F605_	neutral	RAL9006	50 pcs
	ZMDS0020-00401_	neutral	RAL9016	1 pc
turning lock concealed ..	ZMDS0020-00405_	neutral	RAL9016	50 pcs
	ZMDS0020-0F601_	neutral	RAL9006	1 pc
	ZMDS0020-0F605_	neutral	RAL9006	50 pcs
	ZMDS0020-0F605_	neutral	RAL9006	50 pcs



## Installation advice

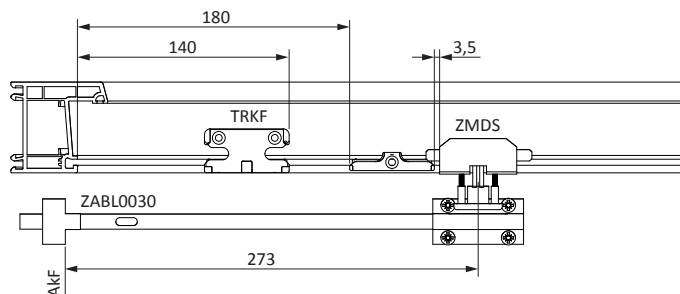
- Abbreviations:

TRKF = tilt lock bearing 56 S-RS.

FRKA = tilt lock bearing S-ES FH.

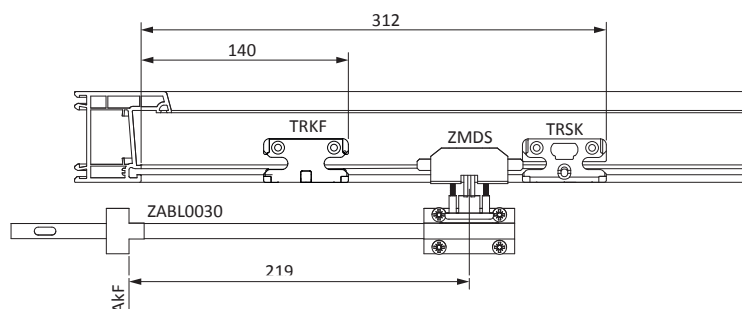
AkF = outer edge of sash.

The jig DSV is set for a 20 mm overlap; in the event of deviations, this is to be adjusted on site.

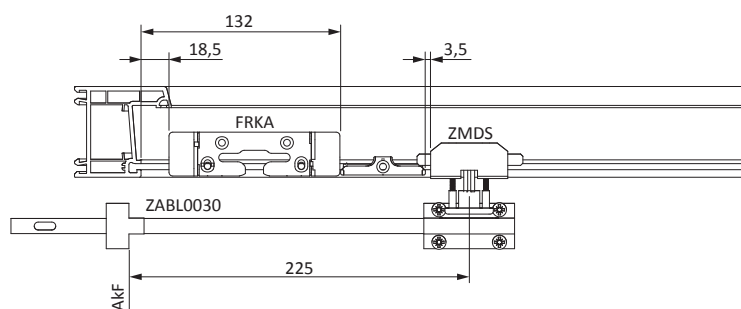


- Can only be used from FFB 451 mm for RC1 and RC2.

RC1 and RC2 451 mm - 500 mm (manually adjust size on drilling jig DSV ZABL0030).



- S-ES FH tilt point





## Technical details

- **x PLEASE NOTE: Centre of toothed bar equals centre of fitting groove!**

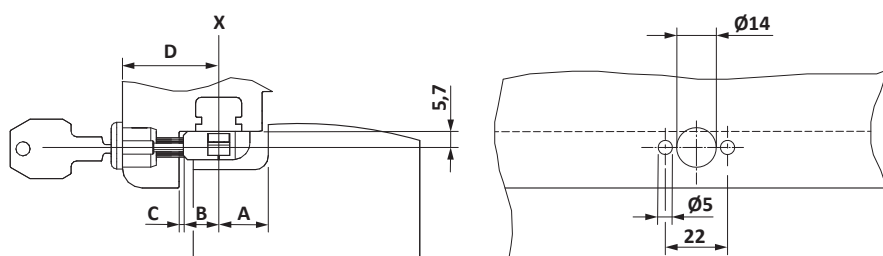
Predrill the specified dimensions using the jig and mount the lock.

Dimension A (min. 11.5 mm) = required space in the frame rebate between the hardware groove centre and the turning lock's outside edge

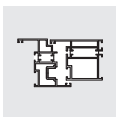
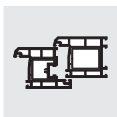
Dimension B\* (12.5 mm - min. 9 mm) = required space in the sash rebate between the hardware groove centre and the turning lock's inside edge

Dimension C\* (min 0 mm) = difference between the inner edge of the turning lock and the sash rebate (screw-fixing plane) - Pack up with the enclosed distance plates

Dimension D (min. 27.5 - max. 34.5 mm) = coverage dimension + groove central position



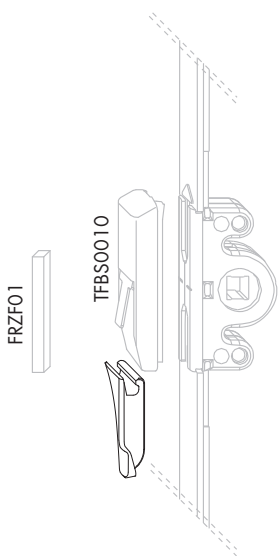
	A	B	C	D
ZMDS0010	11	12,5	-	27,5 - 34,5
ZMDS0030	11	12,5	-	31,5 - 39,5
ZMDS0020	8,5	9	-	22 - 30



Technical information

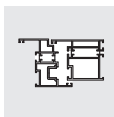
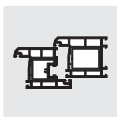
Part number	Description
TFFD0031-...	long pressure piece 13 rh.
TFFD0032-...	long pressure piece 13 lh.

- Special version; please consult with our application engineers beforehand
- Refer to the PDB, line item FRZF01 for matching stops



Sales information

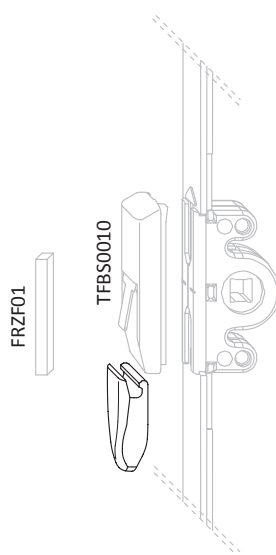
Description	Part number	Surface	Colour	Box quantity
long pressure piece 13 rh.	TFFD0031-02301_	neutral	RAL9005	1 pc
	TFFD0031-02307_	neutral	RAL9005	250 pcs
long pressure piece 13 lh.	TFFD0032-02301_	neutral	RAL9005	1 pc
	TFFD0032-02307_	neutral	RAL9005	250 pcs



## Technical information

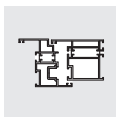
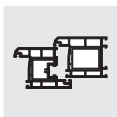
Part number	Description
TFFD0040-...	pressure piece FBS

- Air gap min. 12 mm
- Refer to the PDB, line item FRZF01 for matching stops
- For profiles with extruded seals.
- PVC and ALU systems with a wide frame groove must be filled in the area of the pressure piece. See profile data sheet - Stop FBS.



## Sales information

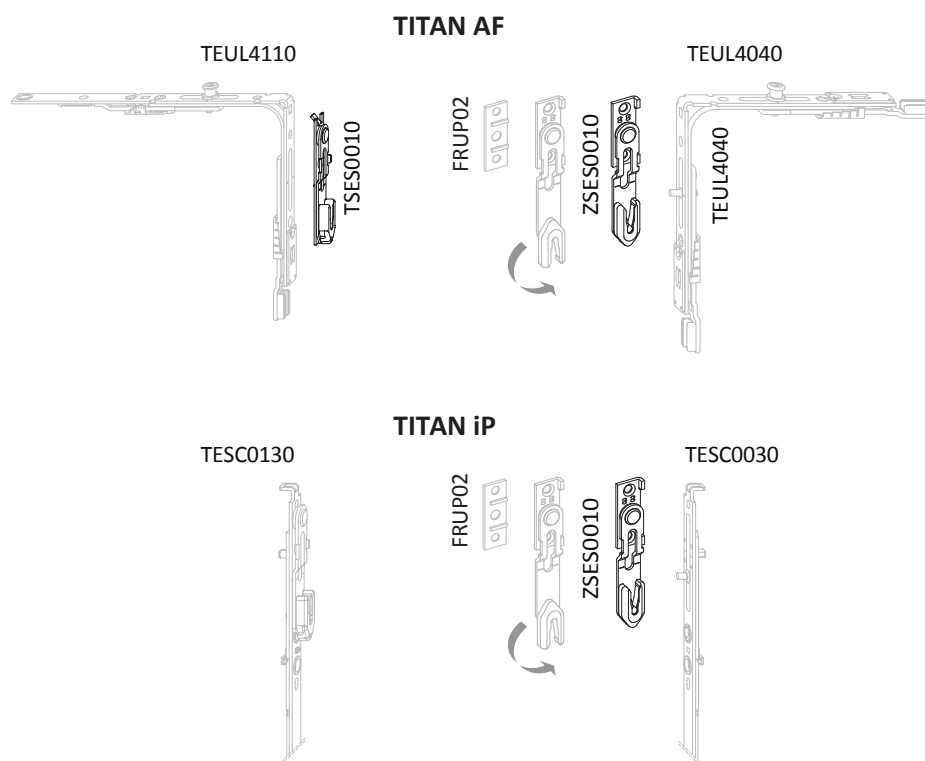
Description	Part number	Surface	Colour	Box quantity
pressure piece FBS	TFFD0040-02301_	neutral	RAL9005	1 pc
	TFFD0040-02307_	neutral	RAL9005	250 pcs



## Technical information

Part number	Description
ZSES0010-...	energy saving stay ES040 ..
TSES0010-...	energy saving stay .. A0767

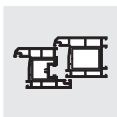
- Enables the sash to be tilted in an energy saving night-vent position
- Packer refer to PDB line item FRUP02



## Sales information

Description	Part number	Surface	Colour	Box quantity
energy saving stay ES040 ..	ZSES0010-10001_	Titan Silver	without	1 pc
	ZSES0010-10005_	Titan Silver	without	50 pcs
energy saving stay .. A0767	TSES0010-10001_	Titan Silver	without	1 pc
	TSES0010-10005_	Titan Silver	without	50 pcs



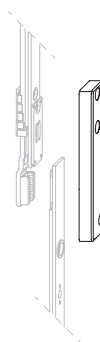


## Technical information

Part number	Description
TFFB0020-...	air gap limiter F 13



- Installation on the stop plate



## Sales information

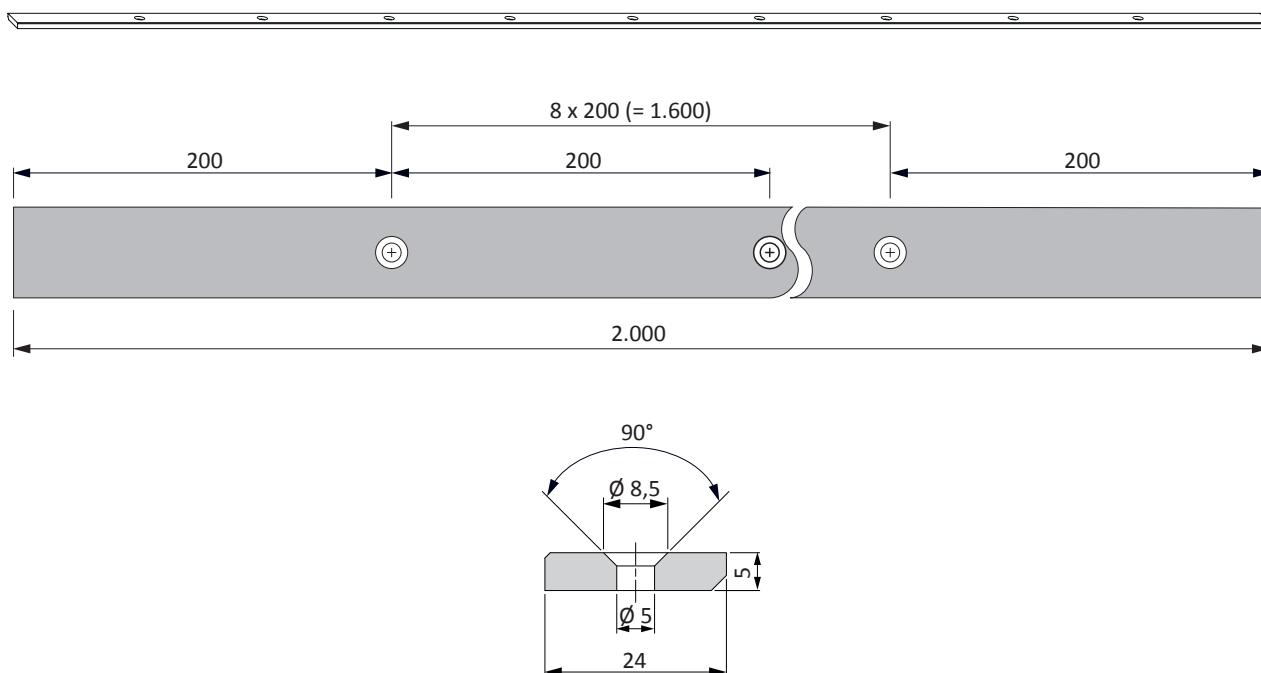
Description	Part number	Surface	Colour	Box quantity
air gap limiter F 13	TFFB0020-04001_	neutral	silver	1 pc
	TFFB0020-04004_	neutral	silver	25 pcs



## Technical information

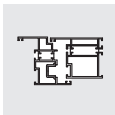
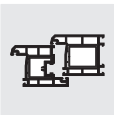
Part number	Description
ZXFB0010-...	air gap limiter H-RC3 ..

- For RC3
- Length 2000 mm, screw spacing 200 mm
- Installation around sash and frame
- Makes entry with a burglary tool more difficult



## Sales information

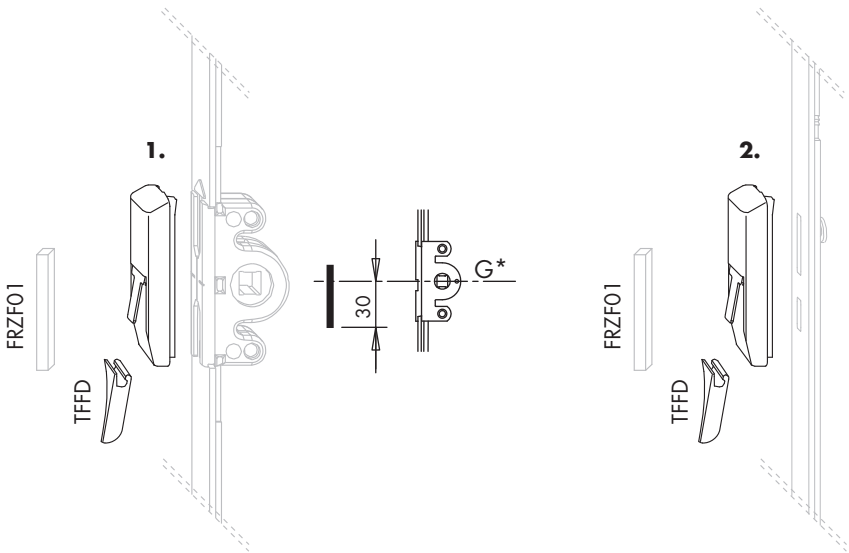
Description	Part number	Surface	Colour	Box quantity
air gap limiter H-RC3 ..	ZXFB0010-0D301_	neutral	RAL7011	1 pc



Technical information

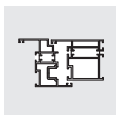
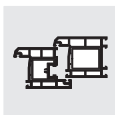
Part number	Description
TFBS0010-...	mishandling device
TFFD0011-...	pressure piece 9 rh.
TFFD0012-...	pressure piece 9 lh.
TFFD0021-...	pressure piece 13 rh.
TFFD0022-...	pressure piece 13 lh.

- 1. gear 15
  - 2. gear 7
  - Refer to the PDB, line item FRZF01 for matching stops
- \* With handle position constant: handle position G + 12 mm



Sales information

Description	Part number	Surface	Colour	Box quantity
mishandling device	TFBS0010-04001_	neutral	silver	1 pc
	TFBS0010-04007_	neutral	silver	250 pcs
pressure piece 9 rh.	TFFD0011-02301_	neutral	RAL9005	1 pc
	TFFD0011-02307_	neutral	RAL9005	250 pcs
pressure piece 9 lh.	TFFD0012-02301_	neutral	RAL9005	1 pc
	TFFD0012-02307_	neutral	RAL9005	250 pcs
pressure piece 13 rh.	TFFD0021-02301_	neutral	RAL9005	1 pc
	TFFD0021-02307_	neutral	RAL9005	250 pcs
pressure piece 13 lh.	TFFD0022-02301_	neutral	RAL9005	1 pc
	TFFD0022-02307_	neutral	RAL9005	250 pcs

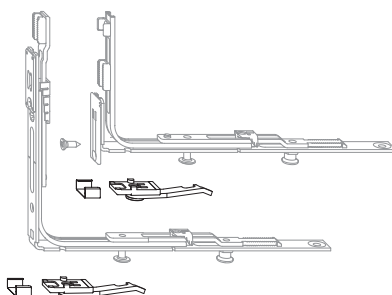
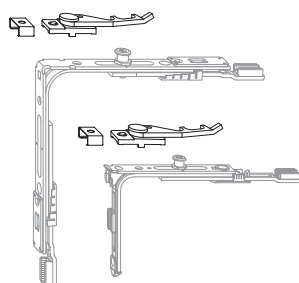


## Technical information

Part number	Description
TFBS0091-...	mishandling device RS KF 13 rh.
TFBS0092-...	mishandling device RS KF 13 lh.
TFBS0081-...	mishandling device 13 rh.
TFBS0082-...	mishandling device 13 lh.
TFBS0061-...	mishandling device VSU 13 rh.
TFBS0062-...	mishandling device VSU 13 lh.

- For striker plates with 56 mm component length
- Applicable on 13 mm groove position
- TFBS009\_ also applicable for TBT

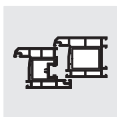
TFBS0091/92



TFBS0061/62

## Sales information

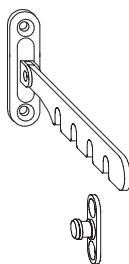
Description	Part number	Surface	Colour	Box quantity
mishandling device RS KF 13 rh.	TFBS0091-10001_	Titan Silver	without	1 pc
	TFBS0091-10006_	Titan Silver	without	100 pcs
mishandling device RS KF 13 lh.	TFBS0092-10001_	Titan Silver	without	1 pc
	TFBS0092-10006_	Titan Silver	without	100 pcs
mishandling device 13 rh.	TFBS0081-10001_	Titan Silver	without	1 pc
	TFBS0081-10006_	Titan Silver	without	100 pcs
mishandling device 13 lh.	TFBS0082-10001_	Titan Silver	without	1 pc
	TFBS0082-10006_	Titan Silver	without	100 pcs
mishandling device VSU 13 rh.	TFBS0061-10006_	Titan Silver	without	100 pcs
mishandling device VSU 13 lh.	TFBS0062-10006_	Titan Silver	without	100 pcs



## Technical information

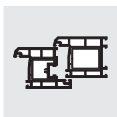
Part number	Description
214411	cockspur fastner ..

- 4 night vent positions
- Retrofittable
- Arrests the sash in the turn and tilt position



## Sales information

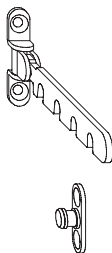
Description	Part number	Surface	Colour	Box quantity
cockspur fastner ..	214411	neutral	RAL9003	100 pcs
	214428	neutral	d bronze	100 pcs



Technical information

Part number	Description
214374	cockspur fastner ..

- 4 night vent positions
  - Arrests the sash in the turn and tilt position
- Retrofittable
  - Pivot joint particularly suitable for turn and tilt sashes





Sales information

Description	Part number	Surface	Colour	Box quantity
cockspur fastner ..	214374	neutral	RAL9003	100 pcs
	214381	neutral	d bronze	100 pcs

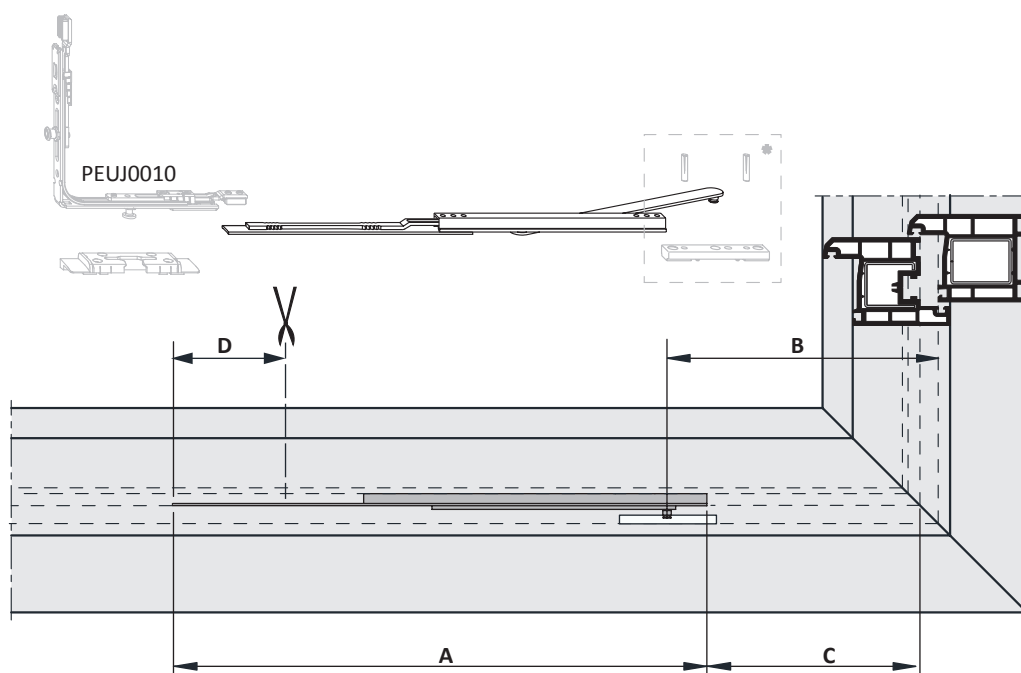


## Technical information

Part number	Description	FFB	Dimensions (mm)					
			A	B	C	D		
TSBR0040-...	brake stay TAB sz 1	470 - 690	540	55	18	200	1	4
TSBR0050-...	brake stay TAB sz 2	691 - 960	718	132	104	250	1	4



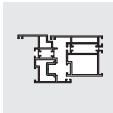
- The dimensions specified only apply when using surface mounted hinges, whose pivot points correspond to SIEGENIA hinges. If pivot points differ, adjust dimensions so that a sash opening angle of 100° is not exceeded.
- Brake stay sz 1 **must not** be used together with rebate corner hinges
- Intended Use:**  
Keep inward opening window sash of side-hung and tilt and turn window elements in turn position for brief ventilation.
- Service in accordance with our operating and maintenance manual
- \*Acc. bag friction stay refer to PDB line item FMBR
- The following must be observed:**  
VHBH Guideline (Specification and Information on the Product and Liability) with the applicable documents stated herein) and the FBDF Guideline (Brake stay for Variable Turning Position of Sashes) - Download the guidelines at [www.beschlagindustrie.de/ggsb/richtlinien.asp](http://www.beschlagindustrie.de/ggsb/richtlinien.asp)). Information from the profile manufacturer and/or system provider (PVC, aluminium) or the DIN 68 121 – „Timber Profiles for Windows and French Windows"



## 6.1

### Sales information

Description	Part number	Surface	Colour	Box quantity
brake stay TAB sz 1	TSBR0040-10001_	Titan Silver	without	1 pc
	TSBR0040-10002_	Titan Silver	without	10 pcs
brake stay TAB sz 2	TSBR0050-10001_	Titan Silver	without	1 pc
	TSBR0050-10002_	Titan Silver	without	10 pcs



## Installation advice

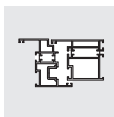
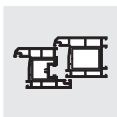
### DANGER

#### **Risk of injury and death due to a sash falling out in the event of misuse!**

In the event of misuse (= movement of the sash that is opened and positioned in the direction of the turning position without first releasing the turn restrictor), large forces can be transferred on to bearing points (hinge-side supporting hardware) and their fixings, which can lead to their malfunction or failure.

- Select and fit hinge-side bearing hardware so that, even in the event of misuse of the sash that is opened and positioned in the direction of the turning position, damage to the load-bearing hardware or the malfunction or failure of the fixing is eliminated.
- Check whether the combination of window profile, hinge-side supporting hardware chosen – this also applies to SIEGENIA hinges – and their fixings withstands misuse. In this respect, check the sash opened and positioned in the direction of the turning position in accordance with Item 3.2 of Guideline FBDF.
- Apply operating instruction stickers near to the handle to avoid misuse.
- The turn restrictors shown here:
  - are used to keep a sash in a defined turning position
  - act against the accidental movement of a sash
  - offer no protection against falling out of a window
  - are not fall protection devices in the sense of the TRAV
  - do not constitute child safety locks
  - are not envisaged for use as arrestable brake-stays for the purposes of cleaning
  - are not envisaged for use as obstruction protection
  - are so-called comfort elements and thus are not safety devices in accordance with Item 4.8 of DIN EN 14351-1:2006+A1 and are not opening limiters in accordance with EN 13126-5



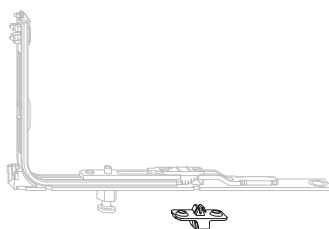


sash lift

TITAN

## Technical information

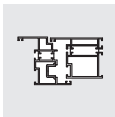
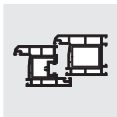
Part number	Description
TFFH0030-...	sash-lift ..



6.1

## Sales information

Description	Part number	Surface	Colour	Box quantity
sash-lift ..	TFFH0030-02301_	neutral	RAL9005	1 pc
	TFFH0030-02306_	neutral	RAL9005	100 pcs



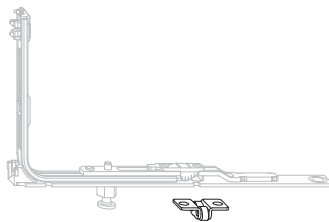
sash lift

TITAN

## Technical information

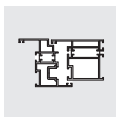
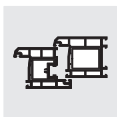
Part number	Description
TFFH0020-...	sash lift ..

- with roller



## Sales information

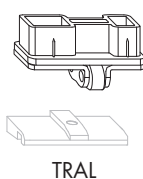
Description	Part number	Surface	Colour	Box quantity
sash lift ..	TFFH0020-10001_	Titan Silver	without	1 pc
	TFFH0020-10006_	Titan Silver	without	100 pcs



## Technical information

Part number	Description
TFFH0010-...	sash lift .. A2000

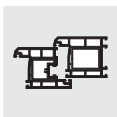
- For open hardware groove
- Positioning up to max. middle of the sash
- Run-up ramp for sash lift; refer to PDB, line item TRAL



TRAL

## Sales information

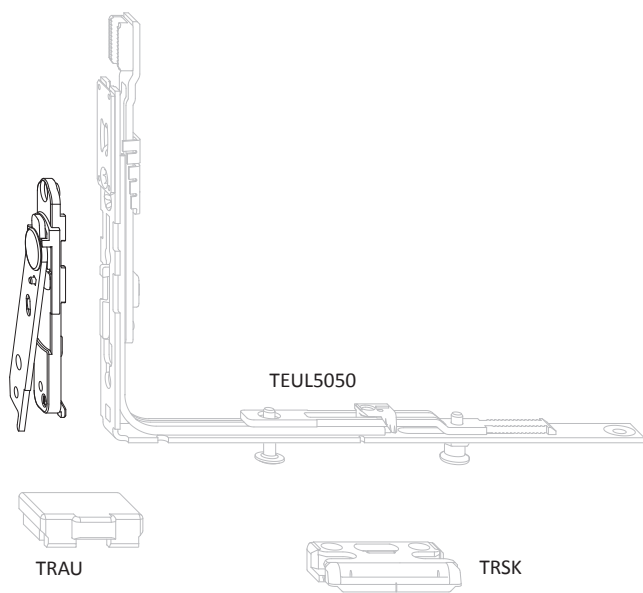
Description	Part number	Surface	Colour	Box quantity
sash lift .. A2000	TFFH0010-10001_	Titan Silver	without	1 pc
	TFFH0010-10005_	Titan Silver	without	50 pcs
	TFFH0010-10008_	Titan Silver	without	500 pcs



Technical information

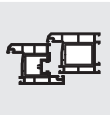
Part number	Description
TFFH0091-...	sash lift FBS .. rh.
TFFH0092-...	sash lift FBS .. lh.

- With integrated mishandling device
- Run up block for sash lift FBS, refer to PDB line item TRAU



Sales information

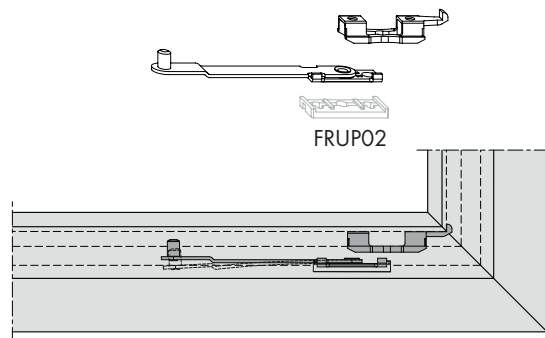
Description	Part number	Surface	Colour	Box quantity
sash lift FBS .. rh.	TFFH0091-10001_	Titan Silver	without	1 pc
	TFFH0091-10006_	Titan Silver	without	100 pcs
sash lift FBS .. lh.	TFFH0092-10001_	Titan Silver	without	1 pc
	TFFH0092-10006_	Titan Silver	without	100 pcs



## Technical information

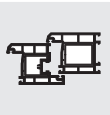
Part number	Description
ZSFF0010-...	cockspur fastner ..

- Packer refer to PDB line item FRUP02




## Sales information

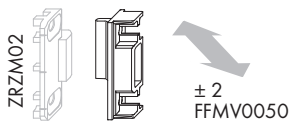
Description	Part number	Surface	Colour	Box quantity
cockspur fastner ..	ZSFF0010-10001_	Titan Silver	without	1 pc
	ZSFF0010-10004_	Titan Silver	without	25 pcs



Technical information

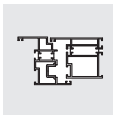
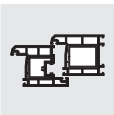
Part number	Description	
FFMV0050-...	sash part MV-W with groove ..	2

- Retrofittable
  - For open hardware groove
  - Wind loads subject to test class 3 in accordance with DIN EN 12210 up to 1800 pascal
- Height-adjustment with hexagon wrench SW4
  - Suitable frame part; refer to PDB, line item ZRZM02




Sales information

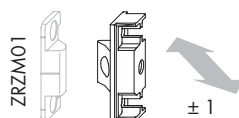
Description	Part number	Surface	Colour	Box quantity
sash part MV-W with groove ..	FFMV0050-10001_	Titan Silver	without	1 pc
	FFMV0050-10006_	Titan Silver	without	100 pcs



## Technical information

Part number	Description	
700662	sash part MV conc. no groove ..	2
FFMV0020-...	sash part MV conc.no grve 13mm ..	2
TFMV0020-...	sash part MV conc. with groove ..	2

- Retrofittable
- Compression adjustment with hexagon wrench SW4
- Suitable frame part is profile-related, refer to PDB line item ZRZM01



## Sales information

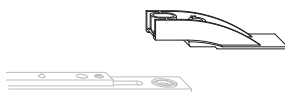
Description	Part number	Surface	Colour	Box quantity
sash part MV conc. no groove ..	700662	Titan Silver	without	1 pc
	275986	Titan Silver	without	100 pcs
	874844	E-Look	without	1 pc
	261620	E-Look	without	100 pcs
sash part MV conc.no grve 13mm ..	FFMV0020-10001_	Titan Silver	without	1 pc
	FFMV0020-10006_	Titan Silver	without	100 pcs
sash part MV conc. with groove ..	TFMV0020-10001_	Titan Silver	without	1 pc
	TFMV0020-10006_	Titan Silver	without	100 pcs
	TFMV0020-20001_	E-Look	without	1 pc
	TFMV0020-20006_	E-Look	without	100 pcs



## Technical information

Part number	Description
TFFS0030-...	filling piece H

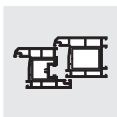
- Facilitates covering the groove end on nonstop routed hardware grooves



## Sales information

Description	Part number	Surface	Colour	Box quantity
filling piece H	TFFS0030-04001_	neutral	silver	1 pc
	TFFS0030-04029_	neutral	silver	1000 pcs

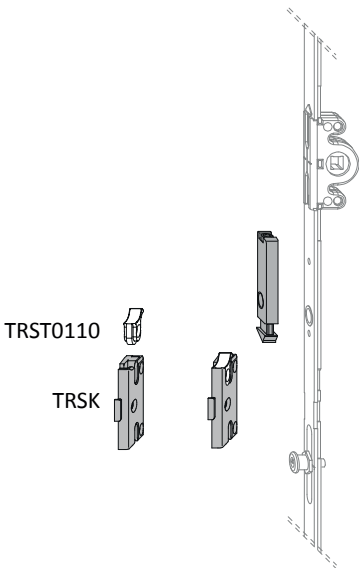




Technical information

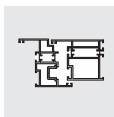
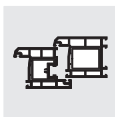
Part number	Description
TRST0110-...	filling piece for snapper ..

- When used in the striker plate S-RS, the filling piece provides an ideal stopping option with the door snapper (TFST002).



Sales information

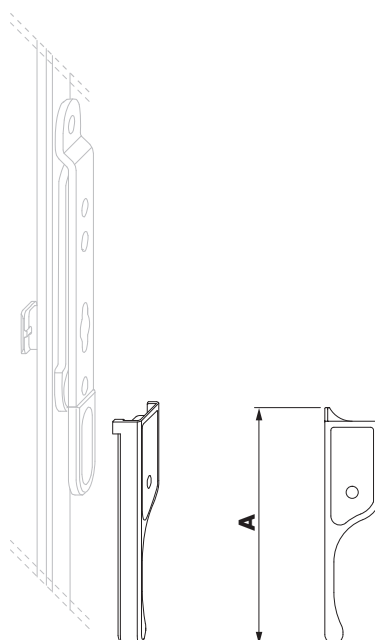
Description	Part number	Surface	Colour	Box quantity
filling piece for snapper ..	TRST0110-0D701_	neutral	RAL7021	1 pc
	TRST0110-0D706_	neutral	RAL7021	100 pcs



## Technical information

Part number	Description	Dimensions (mm)
		A
THVL0011-...	handle VL sec. sash rh.	73
THVL0012-...	handle VL sec. sash lh.	73
THVL0021-...	handle VL sec. sash AF rh.	-
THVL0022-...	handle VL sec. sash AF lh.	-

- Lever extension for lever-operated espagnolette




## Sales information

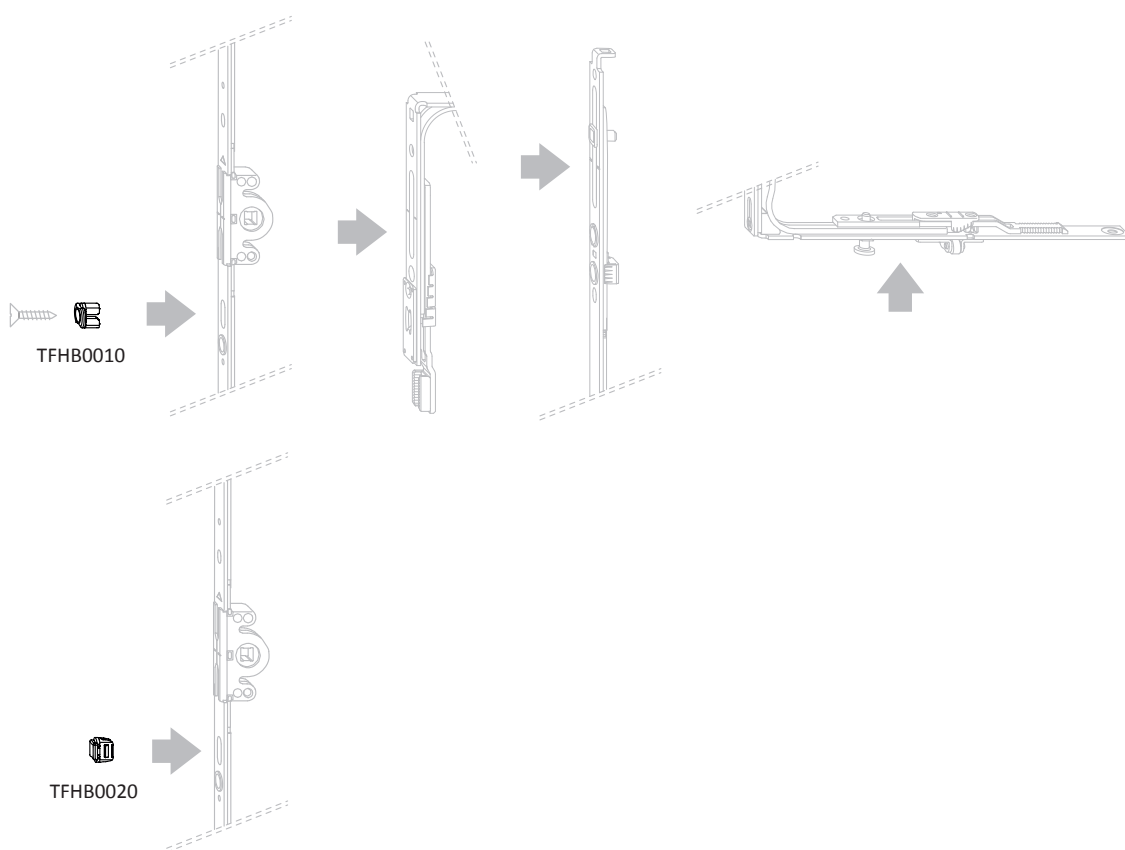
Description	Part number	Surface	Colour	Box quantity
handle VL sec. sash rh.	THVL0011-10001_	Titan Silver	without	1 pc
	THVL0011-10004_	Titan Silver	without	25 pcs
handle VL sec. sash lh.	THVL0012-10001_	Titan Silver	without	1 pc
	THVL0012-10004_	Titan Silver	without	25 pcs
handle VL sec. sash AF rh.	THVL0021-10001_	Titan Silver	without	1 pc
	THVL0021-10004_	Titan Silver	without	25 pcs
handle VL sec. sash AF lh.	THVL0022-10001_	Titan Silver	without	1 pc
	THVL0022-10004_	Titan Silver	without	25 pcs



## Technical information

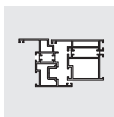
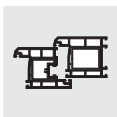
Part number	Description	
TFHB0010-...	travel restrictor	1
TFHB0020-...	travel restrictor clampable	0

- The gear travel will be restricted to half way (90°)



## Sales information

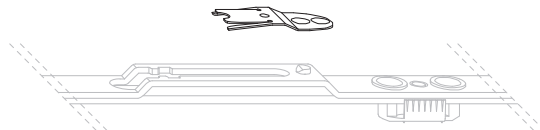
Description	Part number	Surface	Colour	Box quantity
travel restrictor	TFHB0010-09901_	neutral	black/undefined	1 pc
	TFHB0010-09906_	neutral	black/undefined	100 pcs
travel restrictor clampable	TFHB0020-09901_	neutral	black/undefined	1 pc
	TFHB0020-09906_	neutral	black/undefined	100 pcs



## Technical information

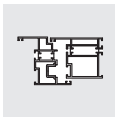
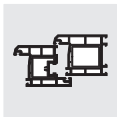
Part number	Description	FFH
TFKB0010-...	tilt restrictor ..	295 - 800

- Restricts the scissor stay's projecting depth to 100 mm



## Sales information

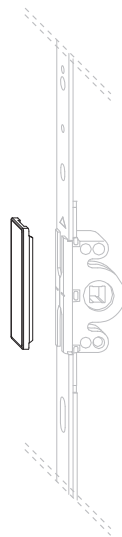
Description	Part number	Surface	Colour	Box quantity
tilt restrictor ..	TFKB0010-10001_	Titan Silver	without	1 pc
	TFKB0010-10008_	Titan Silver	without	500 pcs



## Technical information

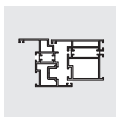
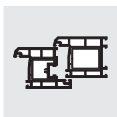
Part number	Description
ZASS0010-...	logo clip ..

- For punch out on gear 15
- Only applicable without mishandling device TFBS001
- Customer-related logo on request



## Sales information

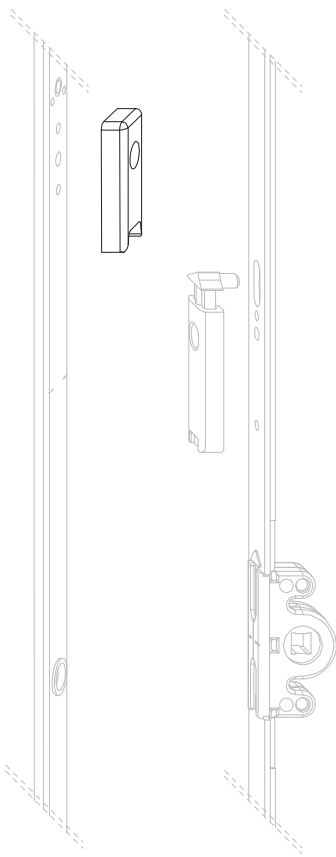
Description	Part number	Surface	Colour	Box quantity
logo clip ..	ZASS0010-00201_	neutral	RAL9003	1 pc
	ZASS0010-00208_	neutral	RAL9003	500 pcs



Technical information

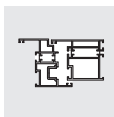
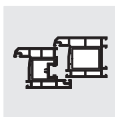
Part number	Description	
TRST0010-...	striker snapper A0767	1

- For operational snapper with a floating mullion



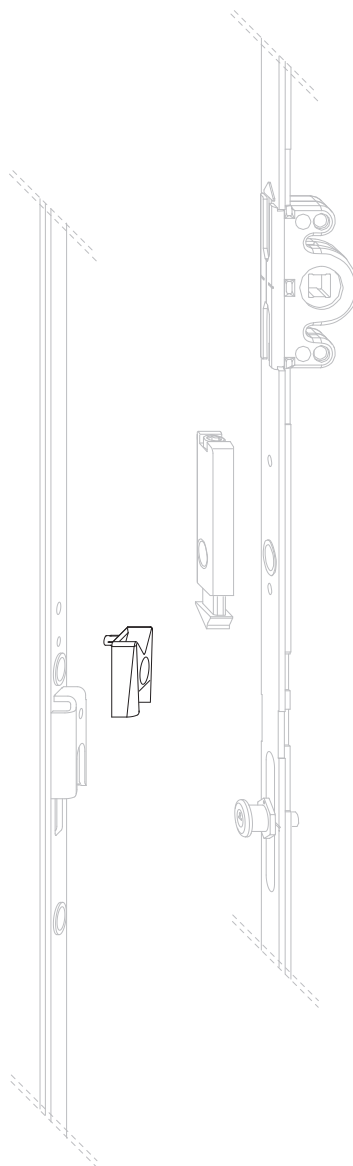
Sales information

Description	Part number	Surface	Colour	Box quantity
striker snapper A0767	TRST0010-10001_	Titan Silver	without	1 pc
	TRST0010-10007_	Titan Silver	without	250 pcs



## Technical information

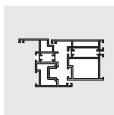
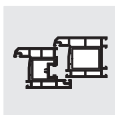
Part number	Description	
TRST0100-...	striker snapper AF A0767	1



6.1

## Sales information

Description	Part number	Surface	Colour	Box quantity
striker snapper AF A0767	TRST0100-10001_	Titan Silver	without	1 pc
	TRST0100-10007_	Titan Silver	without	250 pcs

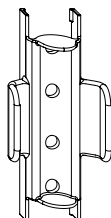


## Technical information

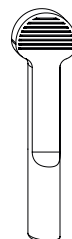
Part number	Description
TBZS0010-...	screw indicator SL
TBZS0020-...	screw indicator EL

- The screw indicators prevent the hanging of the sash during window production before a visual inspection has been carried out. The visual inspection should ensure that all fixing screws have been put in place.
  - Screw indicator for the top hinge
  - Screw indicator for the bottom hinge
- You can find an example application here:  
<https://youtu.be/7ca-7NSkYjM>

1.



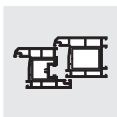
2.



## Sales information

Description	Part number	Surface	Colour	Box quantity
screw indicator SL	TBZS0010-OH501_	neutral	signal red	1 pc
	TBZS0010-OH507_	neutral	signal red	250 pcs
screw indicator EL	TBZS0020-OH501_	neutral	signal red	1 pc
	TBZS0020-OH507_	neutral	signal red	250 pcs





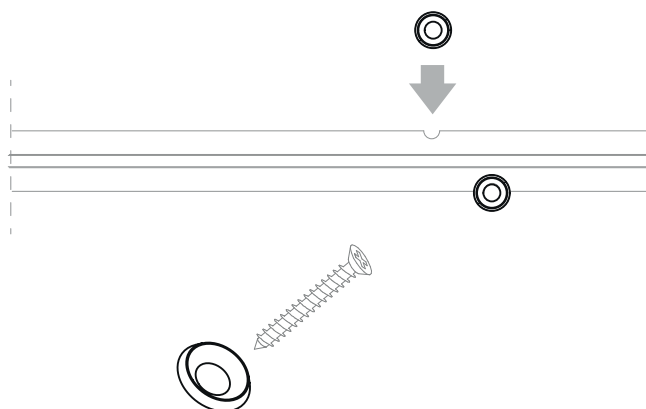
holder

TITAN

## Technical information

Part number	Description
SH001-...	holder ..

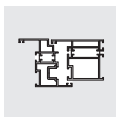
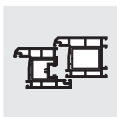
- Applicable in all designs
- Fissaggio supplementare da avvitare accanto alla cava ferramenta.




6.1

## Sales information

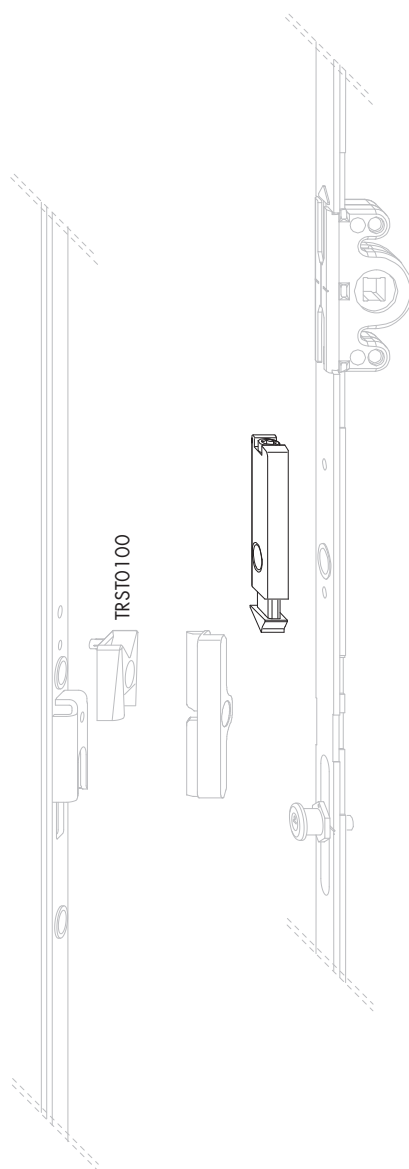
Description	Part number	Surface	Colour	Box quantity
holder ..	SH001-60V0_	Titan Silver	without	100 pcs



## Technical information

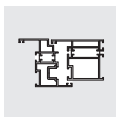
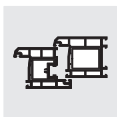
Part number	Description	
TFST0021-...	snapper rh.	1
TFST0022-...	snapper lh.	1

- Application range FFH 1601-3000 mm  
Fixed handle height gear from sz 140  
Centre fixed gear/variable from sz 160
- TRST0100 applicable on gears for secondary sashes 16




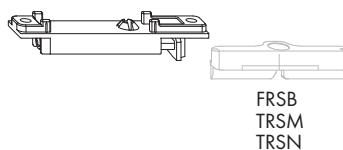
## Sales information

Description	Part number	Surface	Colour	Box quantity
snapper rh.	TFST0021-10001_	Titan Silver	without	1 pc
	TFST0021-10005_	Titan Silver	without	50 pcs
snapper lh.	TFST0022-10001_	Titan Silver	without	1 pc
	TFST0022-10005_	Titan Silver	without	50 pcs



## Technical information

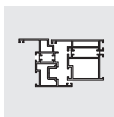
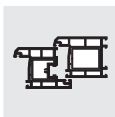
Part number	Description	
TFST0031-...	snapper A2000 rh.	2
TFST0032-...	snapper A2000 lh.	2




## 6.1

### Sales information

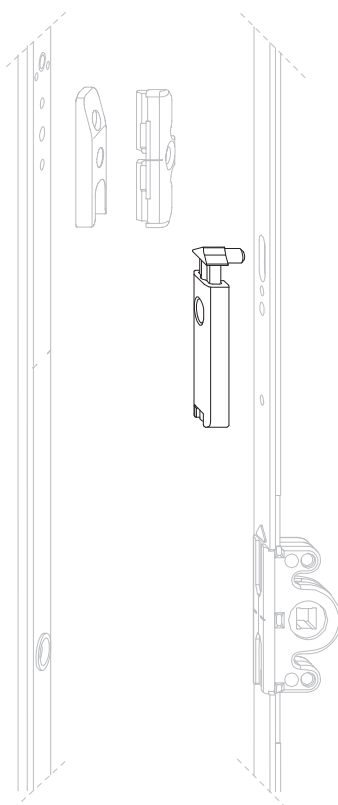
Description	Part number	Surface	Colour	Box quantity
snapper A2000 rh.	TFST0031-10001_	Titan Silver	without	1 pc
	TFST0031-10005_	Titan Silver	without	50 pcs
snapper A2000 lh.	TFST0032-10001_	Titan Silver	without	1 pc
	TFST0032-10005_	Titan Silver	without	50 pcs



## Technical information

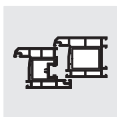
Part number	Description	
TFST0011-...	snapper switchable rh.	1
TFST0012-...	snapper switchable lh.	1

- Application range FFH 1601-3000 mm  
Fixed handle height gear from sz 140  
Centre fixed gear/variable from sz 160
- Not suitable for use on secondary sash gear 8



## Sales information

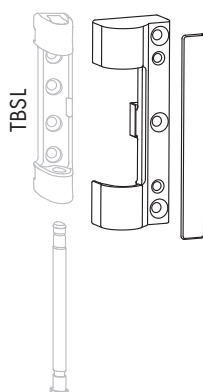
Description	Part number	Surface	Colour	Box quantity
snapper switchable rh.	TFST0011-10001_	Titan Silver	without	1 pc
	TFST0011-10005_	Titan Silver	without	50 pcs
snapper switchable lh.	TFST0012-10001_	Titan Silver	without	1 pc
	TFST0012-10005_	Titan Silver	without	50 pcs



## Technical information

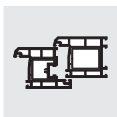
Part number	Description
TMSV0010-...	reinforcement SL

- For additional screw fixing of the top hinge



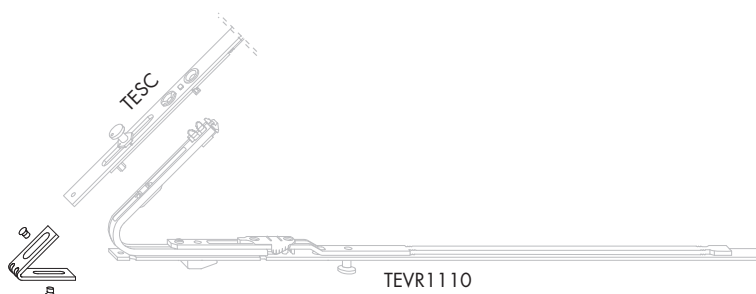
## Sales information

Description	Part number	Surface	Colour	Box quantity
reinforcement SL	TMSV0010-00401_	neutral	RAL9016	1 pc
	TMSV0010-00404_	neutral	RAL9016	25 pcs



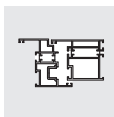
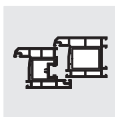
## Technical information

Part number	Description
885680	accessories DEF



## Sales information

Description	Part number	Surface	Colour	Box quantity
accessories DEF	885680	Titan Silver	without	1 pc



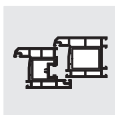
## Technical information

Part number	Description
700044	accessories SF/SB



## Sales information

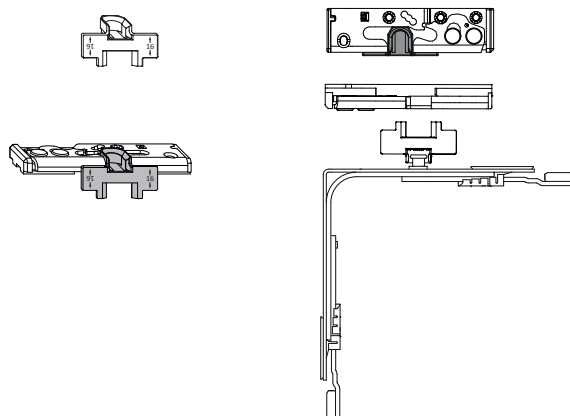
Description	Part number	Surface	Colour	Box quantity
accessories SF/SB	700044	Titan Silver	without	1 pc
	275139	Titan Silver	without	25 pcs



## Technical information

Part number	Description
TART0550-...	frame parts positioning aid 12/..-13

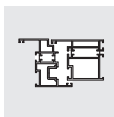
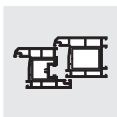
- For exact positioning of the TITAN vent secure frame parts on the hung window.
- The positioning aid is slid via the comfort mushroom cams, it can either be used with the centering function for the TITAN vent secure frame parts or to mark the cam position on the frame.
- As a marking gauge, the positioning aid can also be used to position the standard (TRSM/TRSN) or security striker plates (TRSK).
- You can find an example application here: <https://youtu.be/2wuYHXi3Ffo>



## Sales information

Description	Part number	Surface	Colour	Box quantity
frame parts positioning aid 12/..-13	TART0550-04601_	neutral	RAL 9005	1 pc
	TART0550-04602_	neutral	RAL 9005	10 pcs

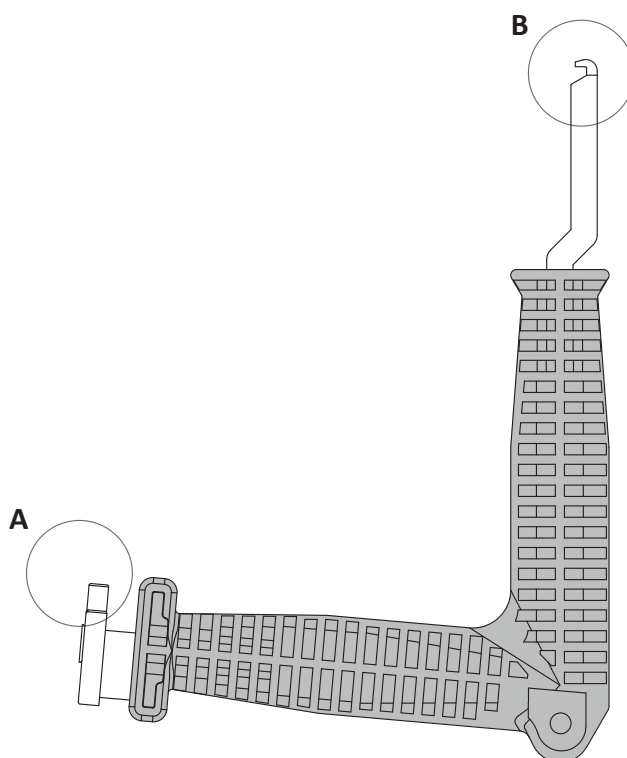




## Technical information

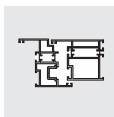
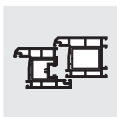
Part number	Description
ZAEW0030-...	assembly key TITAN ..

- To pull out the top hinge pin of the TITAN hinge  
A = loosen top hinge pin  
B = pull out top hinge pin



## Sales information

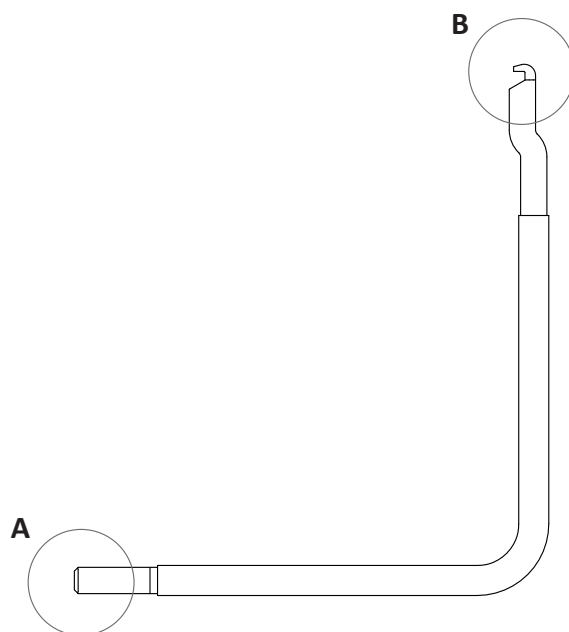
Description	Part number	Surface	Colour	Box quantity
assembly key TITAN ..	ZAEW0030-02301_	neutral	RAL9005	1 pc
	ZAEW0030-02302_	neutral	RAL9005	10 pcs



## Technical information

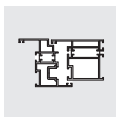
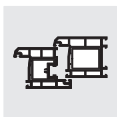
Part number	Description
ZAEW0070-...	assembly key TITAN ..

- To pull out the top hinge pin of the TITAN hinge  
A = loosen top hinge pin  
B = pull out top hinge pin



## Sales information

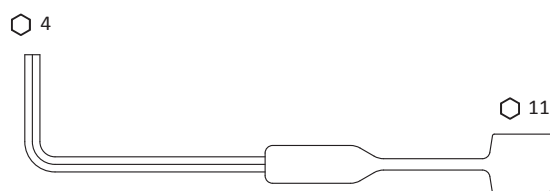
Description	Part number	Surface	Colour	Box quantity
assembly key TITAN ..	ZAEW0070-10001_	Titan Silver	without	1 pc



## Technical information

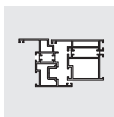
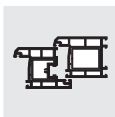
Part number	Description
157756	adjusting key SW4/SW11 ..

- For aligning adjustable hardware components



## Sales information

Description	Part number	Surface	Colour	Box quantity
adjusting key SW4/SW11 ..	157756	neutral	silver undefined	1 pc



## Technical information

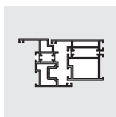
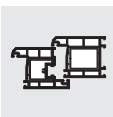
Part number	Description
ZAEW0060-...	adjusting key SW4/T15 ..

- For aligning adjustable hardware components



## Sales information

Description	Part number	Surface	Colour	Box quantity
adjusting key SW4/T15 ..	ZAEW0060-10001_	Titan Silver	without	1 pc

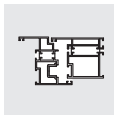
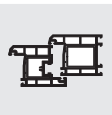


## 6.2 GLOBE handle range

Directory

**TITAN**

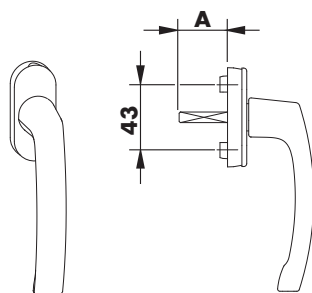
Description	Material	Page
handle GLOBE	ZHGS0010, ZHGS0020, ZHGS1000	6.2 - 2
handle GLOBE SI-AU	ZHGS0040	6.2 - 3
handle GLOBE SEC	ZHGS0100, ZHGS0050, ZHGS0060, ZHGS0110	6.2 - 4
handle GLOBE SEC SI-AU	ZHGS0080	6.2 - 6
handle GLOBE SEC 12	ZHGS0090	6.2 - 7
handle GLOBE lock. 40	ZHGA0010, ZHGA0020, ZHGA0070	6.2 - 8
handle GLOBE SEC ABS 100	ZHGA0060, ZHGA0080	6.2 - 9
handle GLOBE DKN	ZHGD0020, ZHGD0030	6.2 - 10
handle GLOBE TBT 40	ZHGT0010, ZHGT0020, ZHGT0030	6.2 - 11
handle GLOBE SP	ZHGL0020	6.2 - 12
handle GLOBE demountable	ZHGN0010, ZHGR0030	6.2 - 13
handle GLOBE TL/PZ	ZMZP0030, ZMZP0020, ZMZP0010, ZMZP0040, ZMGP0010	6.2 - 14
handle GLOBE TL/PZ flat	ZMZP0030, ZMZP0020, ZMZP0010, ZMZP0040, ZMGP0020	6.2 - 15



## Technical information

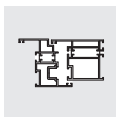
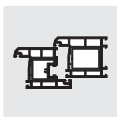
Part number	Description	Dimensions (mm)
		A
ZHGS0010-...	handle GLOBE 31	31
ZHGS0020-...	handle GLOBE 35	35
ZHGS1000-...	handle GLOBE 40	40

- Lug diameter 10 mm
- Dimension A = spindle length
- Lug diameter 12 mm and alternative spindle lengths available upon request



## Sales information

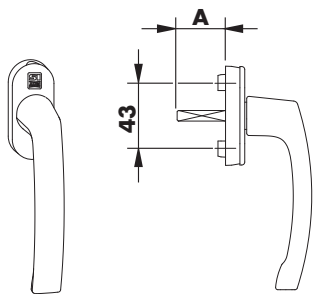
Description	Part number	Surface	Colour	Box quantity
handle GLOBE 31	ZHGS0010-00401_	neutral	RAL9016	1 pc
	ZHGS0010-00406_	neutral	RAL9016	100 pcs
	ZHGS0010-02401_	neutral	EV1/EV1	1 pc
	ZHGS0010-02406_	neutral	EV1/EV1	100 pcs
handle GLOBE 35	ZHGS0020-00401_	neutral	RAL9016	1 pc
	ZHGS0020-00406_	neutral	RAL9016	100 pcs
	ZHGS0020-01201_	neutral	RAL8022	1 pc
	ZHGS0020-01206_	neutral	RAL8022	100 pcs
	ZHGS0020-02401_	neutral	EV1/EV1	1 pc
	ZHGS0020-02406_	neutral	EV1/EV1	100 pcs
	ZHGS0020-0H401_	neutral	F9 titan m dark	1 pc
	ZHGS0020-0H406_	neutral	F9 titan m dark	100 pcs
	ZHGS0020-0I201_	neutral	F3 matt gold	1 pc
	ZHGS0020-0I206_	neutral	F3 matt gold	100 pcs
	ZHGS0020-0K601_	neutral	F4 bronze	1 pc
	ZHGS0020-0K606_	neutral	F4 bronze	100 pcs
handle GLOBE 40	ZHGS1000-00401_	neutral	RAL9016	1 pc
	ZHGS1000-00406_	neutral	RAL9016	100 pcs
	ZHGS1000-01201_	neutral	RAL8022	1 pc
	ZHGS1000-01206_	neutral	RAL8022	100 pcs
	ZHGS1000-02401_	neutral	EV1/EV1	1 pc
	ZHGS1000-02406_	neutral	EV1/EV1	100 pcs
	ZHGS1000-0H401_	neutral	F9 titan m dark	1 pc
	ZHGS1000-0H406_	neutral	F9 titan m dark	100 pcs
	ZHGS1000-0K601_	neutral	F4 bronze	1 pc
	ZHGS1000-0K606_	neutral	F4 bronze	100 pcs



Technical information

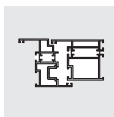
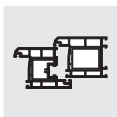
Part number	Description	Dimensions (mm) A
ZHGS0040-...	handle GLOBE 35	35

- Lug diameter 10 mm
- Dimension A = spindle length
- With SIEGENIA logo on the cover plate
- Lug diameter 12 mm and alternative spindle lengths available upon request



Sales information

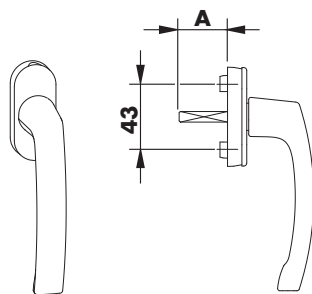
Description	Part number	Surface	Colour	Box quantity
handle GLOBE 35	ZHGS0040-02401_	neutral	EV1/EV1	1 pc
	ZHGS0040-02406_	neutral	EV1/EV1	100 pcs



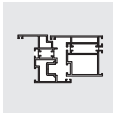
## Technical information

Part number	Description	Dimensions (mm) A
ZHGS0100-...	handle GLOBE SEC 25	-
ZHGS0050-...	handle GLOBE SEC 31	31
ZHGS0060-...	handle GLOBE SEC 35	35
ZHGS0110-...	handle GLOBE SEC 40	-

- Makes it difficult to twist the square spindle and thereby to move the window drive from the outside
- Lug diameter 10 mm
- Dimension A = spindle length
- Lug diameter 12 mm and alternative spindle lengths available upon request

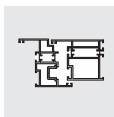
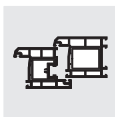






## Sales information

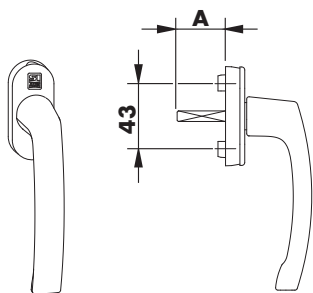
Description	Part number	Surface	Colour	Box quantity
handle GLOBE SEC 25	ZHGS0100-00401_	neutral	RAL9016	1 pc
	ZHGS0100-00406_	neutral	RAL9016	100 pcs
	ZHGS0100-01201_	neutral	RAL8022	1 pc
	ZHGS0100-01206_	neutral	RAL8022	100 pcs
	ZHGS0100-0H401_	neutral	F9 titan m dark	1 pc
	ZHGS0100-0H406_	neutral	F9 titan m dark	100 pcs
	ZHGS0100-0K601_	neutral	F4 bronze	1 pc
	ZHGS0100-0K606_	neutral	F4 bronze	100 pcs
handle GLOBE SEC 31	ZHGS0050-00401_	neutral	RAL9016	1 pc
	ZHGS0050-00406_	neutral	RAL9016	100 pcs
	ZHGS0050-02401_	neutral	EV1/EV1	1 pc
	ZHGS0050-02406_	neutral	EV1/EV1	100 pcs
	ZHGS0050-0H401_	neutral	F9 titan m dark	1 pc
	ZHGS0050-0H406_	neutral	F9 titan m dark	100 pcs
handle GLOBE SEC 35	ZHGS0060-00401_	neutral	RAL9016	1 pc
	ZHGS0060-00406_	neutral	RAL9016	100 pcs
	ZHGS0060-01201_	neutral	RAL8022	1 pc
	ZHGS0060-01206_	neutral	RAL8022	100 pcs
	ZHGS0060-02401_	neutral	EV1/EV1	1 pc
	ZHGS0060-02406_	neutral	EV1/EV1	100 pcs
	ZHGS0060-0H401_	neutral	F9 titan m dark	1 pc
	ZHGS0060-0H406_	neutral	F9 titan m dark	100 pcs
	ZHGS0060-0I201_	neutral	F3 matt gold	1 pc
	ZHGS0060-0I206_	neutral	F3 matt gold	100 pcs
	ZHGS0060-0K601_	neutral	F4 bronze	1 pc
	ZHGS0060-0K606_	neutral	F4 bronze	100 pcs
handle GLOBE SEC 40	ZHGS0110-00401_	neutral	RAL9016	1 pc
	ZHGS0110-00406_	neutral	RAL9016	100 pcs
	ZHGS0110-01201_	neutral	RAL8022	1 pc
	ZHGS0110-01206_	neutral	RAL8022	100 pcs
	ZHGS0110-02401_	neutral	EV1/EV1	1 pc
	ZHGS0110-02406_	neutral	EV1/EV1	100 pcs
	ZHGS0110-0H401_	neutral	F9 titan m dark	1 pc
	ZHGS0110-0H406_	neutral	F9 titan m dark	100 pcs
	ZHGS0110-0K601_	neutral	F4 bronze	1 pc
	ZHGS0110-0K606_	neutral	F4 bronze	100 pcs



Technical information

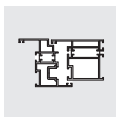
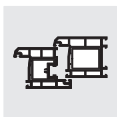
Part number	Description	Dimensions (mm) A
ZHGS0080-...	handle GLOBE SEC 35	35

- Makes it difficult to twist the square spindle and thereby to move the window drive from the outside
- Lug diameter 10 mm
- Dimension A = spindle length
- With SIEGENIA logo on the cover plate
- Lug diameter 12 mm and alternative spindle lengths available upon request



Sales information

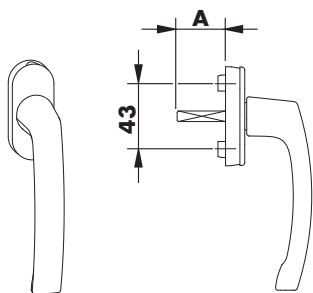
Description	Part number	Surface	Colour	Box quantity
handle GLOBE SEC 35	ZHGS0080-00401_	neutral	RAL9016	1 pc
	ZHGS0080-00406_	neutral	RAL9016	100 pcs
	ZHGS0080-01201_	neutral	RAL8022	1 pc
	ZHGS0080-01206_	neutral	RAL8022	100 pcs
	ZHGS0080-02401_	neutral	EV1/EV1	1 pc
	ZHGS0080-02406_	neutral	EV1/EV1	100 pcs
	ZHGS0080-0H401_	neutral	F9 titan m dark	1 pc
	ZHGS0080-0H406_	neutral	F9 titan m dark	100 pcs
	ZHGS0080-0I201_	neutral	F3 matt gold	1 pc
	ZHGS0080-0I206_	neutral	F3 matt gold	100 pcs
	ZHGS0080-0K601_	neutral	F4 bronze	1 pc
	ZHGS0080-0K606_	neutral	F4 bronze	100 pcs



Technical information

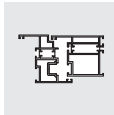
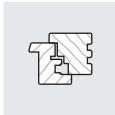
Part number	Description
ZHGS0090-...	handle GLOBE SEC 40

- Makes it difficult to twist the square spindle and thereby to move the window drive from the outside
- Lug diameter 12mm
  - Dimension A = spindle length



Sales information

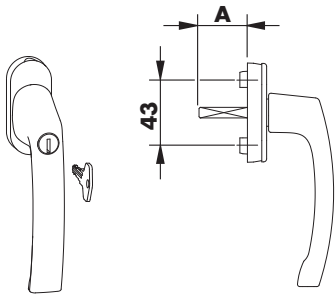
Description	Part number	Surface	Colour	Box quantity
handle GLOBE SEC 40	ZHGS0090-00401_	neutral	RAL9016	1 pc
	ZHGS0090-00406_	neutral	RAL9016	100 pcs



Technical information

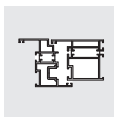
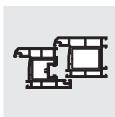
Part number	Description	Dimensions (mm) A
ZHGA0010-...	handle GLOBE ABS40 31	31
ZHGA0020-...	handle GLOBE ABS40 35	35
ZHGA0070-...	handle GLOBE ABS40 40	-

- Lockable with push cylinder
  - 40 Nm resistance against breaking and tearing
  - Lug diameter 10 mm
- Dimension A = spindle length
  - Lug diameter 12 mm and alternative spindle lengths available upon request



Sales information

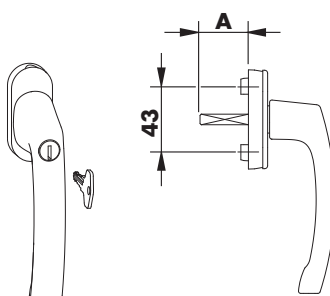
Description	Part number	Surface	Colour	Box quantity
handle GLOBE ABS40 31	ZHGA0010-02401_	neutral	EV1/EV1	1 pc
	ZHGA0010-02402_	neutral	EV1/EV1	10 pcs
handle GLOBE ABS40 35	ZHGA0020-00401_	neutral	RAL9016	1 pc
	ZHGA0020-00402_	neutral	RAL9016	10 pcs
	ZHGA0020-01201_	neutral	RAL8022	1 pc
	ZHGA0020-01202_	neutral	RAL8022	10 pcs
	ZHGA0020-02401_	neutral	EV1/EV1	1 pc
	ZHGA0020-02402_	neutral	EV1/EV1	10 pcs
	ZHGA0020-0H401_	neutral	F9 titan m dark	1 pc
	ZHGA0020-0H402_	neutral	F9 titan m dark	10 pcs
	ZHGA0020-0K601_	neutral	F4 bronze	1 pc
	ZHGA0020-0K602_	neutral	F4 bronze	10 pcs
handle GLOBE ABS40 40	ZHGA0070-00401_	neutral	RAL9016	1 pc
	ZHGA0070-00402_	neutral	RAL9016	10 pcs
	ZHGA0070-0H401_	neutral	F9 titan m dark	1 pc
	ZHGA0070-0H402_	neutral	F9 titan m dark	10 pcs
	ZHGA0070-0K601_	neutral	F4 bronze	1 pc
	ZHGA0070-0K602_	neutral	F4 bronze	10 pcs



## Technical information

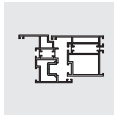
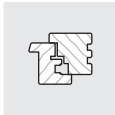
Part number	Description	Dimensions (mm)
		A
ZHGA0060-...	handle GLOBE ABS100 SEC 35	35
ZHGA0080-...	handle GLOBE ABS100 SEC 40	40

- Lockable with push cylinder
- 100 Nm resistance against breaking and tearing according to DIN EN 1627
- Makes it difficult to twist the square spindle and thereby to move the window drive from the outside
- Lug diameter 10 mm
- Dimension A = spindle length
- Lug diameter 12 mm and alternative spindle lengths available upon request



## Sales information

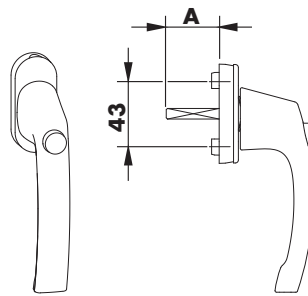
Description	Part number	Surface	Colour	Box quantity
handle GLOBE ABS100 SEC 35	ZHGA0060-00401_	neutral	RAL9016	1 pc
	ZHGA0060-00402_	neutral	RAL9016	10 pcs
	ZHGA0060-01201_	neutral	RAL8022	1 pc
	ZHGA0060-01202_	neutral	RAL8022	10 pcs
	ZHGA0060-02401_	neutral	EV1/EV1	1 pc
	ZHGA0060-02402_	neutral	EV1/EV1	10 pcs
	ZHGA0060-0H401_	neutral	F9 titan m dark	1 pc
	ZHGA0060-0H402_	neutral	F9 titan m dark	10 pcs
handle GLOBE ABS100 SEC 40	ZHGA0080-00402_	neutral	RAL9016	10 pcs
	ZHGA0080-01202_	neutral	RAL8022	10 pcs
	ZHGA0080-02401_	neutral	EV1/EV1	1 pc
	ZHGA0080-02402_	neutral	EV1/EV1	10 pcs
	ZHGA0080-0H402_	neutral	F9 titan m dark	10 pcs



## Technical information

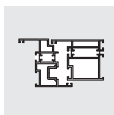
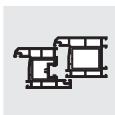
Part number	Description	Dimensions (mm) A
ZHGD0020-...	handle GLOBE DKN 35	35
ZHGD0030-...	handle GLOBE DKN 40	-

- Push-to-open
- Makes it difficult to twist the square spindle and thereby to move the window drive from the outside
- Lug diameter 10 mm
- Dimension A = spindle length
- Lug diameter 12 mm and alternative spindle lengths available upon request



## Sales information

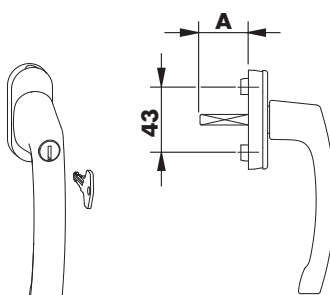
Description	Part number	Surface	Colour	Box quantity
handle GLOBE DKN 35	ZHGD0020-00401_	neutral	RAL9016	1 pc
	ZHGD0020-00402_	neutral	RAL9016	10 pcs
	ZHGD0020-02401_	neutral	EV1/EV1	1 pc
	ZHGD0020-02402_	neutral	EV1/EV1	10 pcs
	ZHGD0020-0H402_	neutral	F9 titan m dark	10 pcs
handle GLOBE DKN 40	ZHGD0030-00401_	neutral	RAL9016	1 pc
	ZHGD0030-00402_	neutral	RAL9016	10 pcs
	ZHGD0030-01201_	neutral	RAL8022	1 pc
	ZHGD0030-01202_	neutral	RAL8022	10 pcs
	ZHGD0030-02401_	neutral	EV1/EV1	1 pc
	ZHGD0030-02402_	neutral	EV1/EV1	10 pcs
	ZHGD0030-0H401_	neutral	F9 titan m dark	1 pc
	ZHGD0030-0H402_	neutral	F9 titan m dark	10 pcs



## Technical information

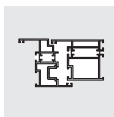
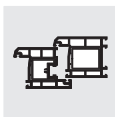
Part number	Description	Dimensions (mm) A
ZHGT0010-...	handle GLOBE TBT40 31	31
ZHGT0020-...	handle GLOBE TBT40 35	35
ZHGT0030-...	handle GLOBE TBT40 40	-

- Lockable for TBT operation = TILT before TURN
- 40 Nm resistance against breaking and tearing
- Turn-mode to be unlocked separately = child safety lock
- Lug diameter 10 mm
- Dimension A = spindle length
- Lug diameter 12 mm and alternative spindle lengths available upon request



## Sales information

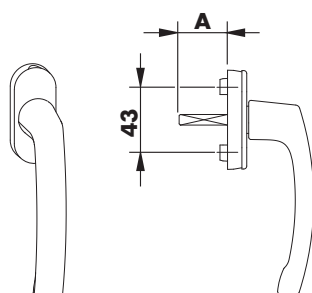
Description	Part number	Surface	Colour	Box quantity
handle GLOBE TBT40 31	ZHGT0010-0H401_	neutral	F9 titan m dark	1 pc
	ZHGT0010-0H402_	neutral	F9 titan m dark	10 pcs
handle GLOBE TBT40 35	ZHGT0020-00401_	neutral	RAL9016	1 pc
	ZHGT0020-00402_	neutral	RAL9016	10 pcs
	ZHGT0020-02401_	neutral	EV1/EV1	1 pc
	ZHGT0020-02402_	neutral	EV1/EV1	10 pcs
	ZHGT0020-0H401_	neutral	F9 titan m dark	1 pc
	ZHGT0020-0H402_	neutral	F9 titan m dark	10 pcs
handle GLOBE TBT40 40	ZHGT0030-00401_	neutral	RAL9016	1 pc
	ZHGT0030-00402_	neutral	RAL9016	10 pcs
	ZHGT0030-01201_	neutral	RAL8022	1 pc
	ZHGT0030-01202_	neutral	RAL8022	10 pcs



## Technical information

Part number	Description	Dimensions (mm) A
ZHGL0020-...	handle GLOBE SP 35	35

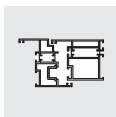
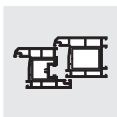
- 45° click-in position for night vent
- Lug diameter 10 mm
- Dimension A = spindle length
- Lug diameter 12 mm and alternative spindle lengths available upon request



## Sales information

Description	Part number	Surface	Colour	Box quantity
handle GLOBE SP 35	ZHGL0020-02401_	neutral	EV1/EV1	1 pc
	ZHGL0020-02406_	neutral	EV1/EV1	100 pcs

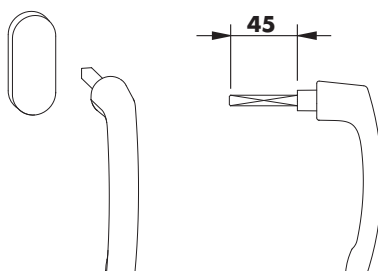




## Technical information

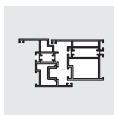
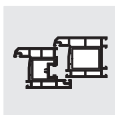
Part number	Description	Dimensions (mm) A
ZHGN0010-...	handle globe detatchable 45	45
ZHGR0030-...	rose GLOBE ..	-

- Lug diameter 10 mm
- Lug diameter 12 mm available upon request



## Sales information

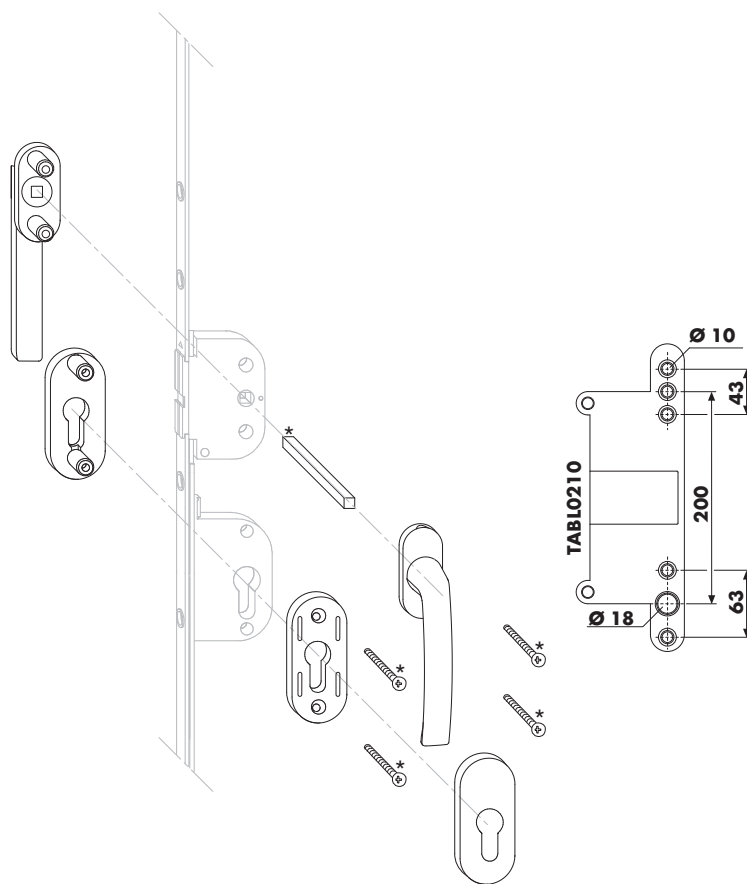
Description	Part number	Surface	Colour	Box quantity
handle globe detatchable 45	ZHGN0010-00401_	neutral	RAL9016	1 pc
	ZHGN0010-00402_	neutral	RAL9016	10 pcs
rose GLOBE ..	ZHGR0030-00401_	neutral	RAL9016	1 pc
	ZHGR0030-00402_	neutral	RAL9016	10 pcs
	ZHGR0030-0H401_	neutral	F9 titan m dark	1 pc
	ZHGR0030-0H402_	neutral	F9 titan m dark	10 pcs



## Technical information

Part number	Description
ZMZIP0030-...	accessories TL/PZ PD 55-64mm
ZMZIP0020-...	accessories TL/PZ PD 65-74mm
ZMZIP0010-...	accessories TL/PZ PD 75-84mm
ZMZIP0040-...	accessories TL/PZ PD 85-94mm
ZMGP0010-...	handle GLOBE TL/PZ

- Lug diameter 10 mm
- \* Contents of bag accessories TL/PZ
- Suitable for standard profile cylinders



## Sales information

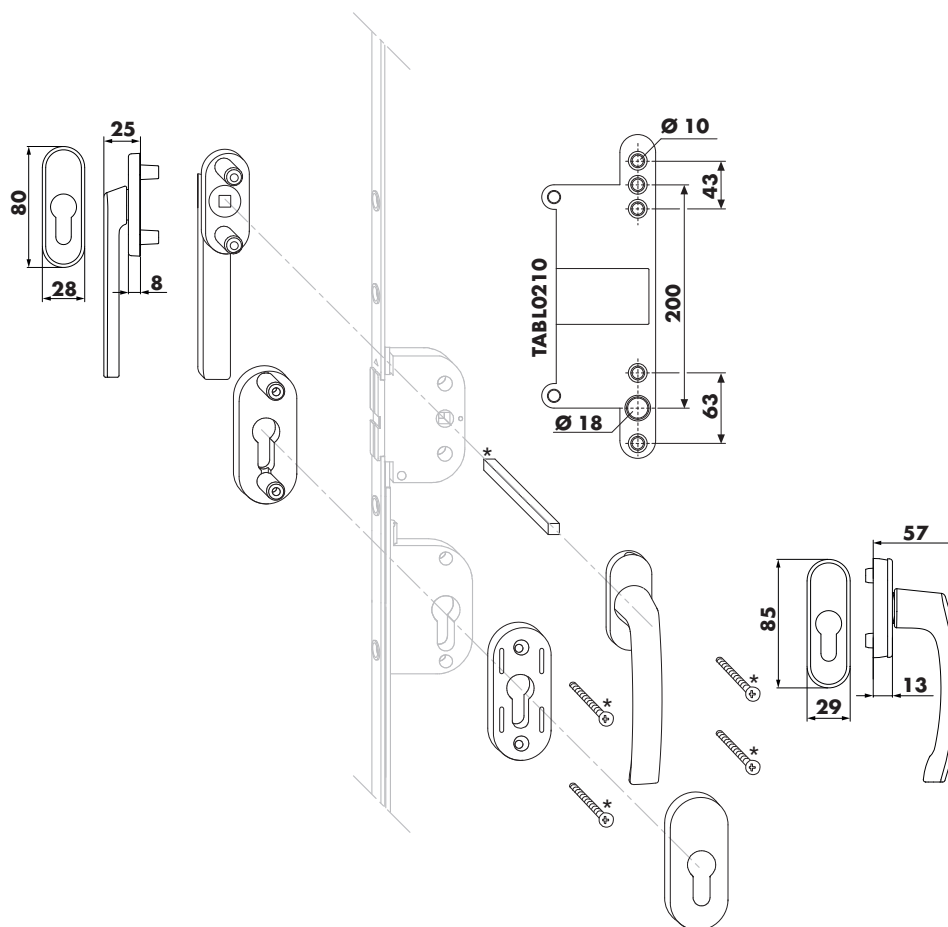
Description	Part number	Surface	Colour	Box quantity
accessories TL/PZ PD 55-64mm	ZMZIP0030-10001_	Titan Silver	without	1 pc
accessories TL/PZ PD 65-74mm	ZMZIP0020-10001_	Titan Silver	without	1 pc
accessories TL/PZ PD 75-84mm	ZMZIP0010-10001_	Titan Silver	without	1 pc
accessories TL/PZ PD 85-94mm	ZMZIP0040-10001_	Titan Silver	without	1 pc
handle GLOBE TL/PZ	ZMGP0010-00401_	neutral	RAL9016	1 pc
	ZMGP0010-00402_	neutral	RAL9016	10 pcs
	ZMGP0010-02401_	neutral	EV1/EV1	1 pc
	ZMGP0010-02402_	neutral	EV1/EV1	10 pcs
	ZMGP0010-0H401_	neutral	F9 titan m dark	1 pc
	ZMGP0010-0H402_	neutral	F9 titan m dark	10 pcs
	ZMGP0010-0K602_	neutral	F4 bronze	10 pcs
	ZMGP0010-0K601_	neutral	F4 bronze	10 pcs



## Technical information

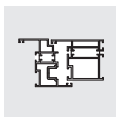
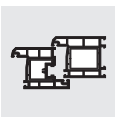
Part number	Description
ZMZIP0030-...	accessories TL/PZ PD 55-64mm
ZMZIP0020-...	accessories TL/PZ PD 65-74mm
ZMZIP0010-...	accessories TL/PZ PD 75-84mm
ZMZIP0040-...	accessories TL/PZ PD 85-94mm
ZMGP0020-...	handle globe TL/PZ ext flat

- Lug diameter 10 mm
- Suitable for standard profile cylinders
- \* Contents of bag accessories TL/PZ
- Total height of the handle outside = 25 mm



## Sales information

Description	Part number	Surface	Colour	Box quantity
accessories TL/PZ PD 55-64mm	ZMZIP0030-10001_	Titan Silver	without	1 pc
accessories TL/PZ PD 65-74mm	ZMZIP0020-10001_	Titan Silver	without	1 pc
accessories TL/PZ PD 75-84mm	ZMZIP0010-10001_	Titan Silver	without	1 pc
accessories TL/PZ PD 85-94mm	ZMZIP0040-10001_	Titan Silver	without	1 pc
handle globe TL/PZ ext flat	ZMGP0020-00401_	neutral	RAL9016	1 pc
	ZMGP0020-00402_	neutral	RAL9016	10 pcs
	ZMGP0020-01202_	neutral	RAL8022	10 pcs
	ZMGP0020-02402_	neutral	EV1/EV1	10 pcs
	ZMGP0020-0H402_	neutral	F9 titan m dark	10 pcs
	ZMGP0020-0K602_	neutral	F4 bronze	10 pcs

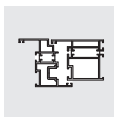
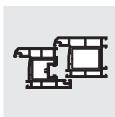


## 6.3 Si-line handle range


Directory

**TITAN**

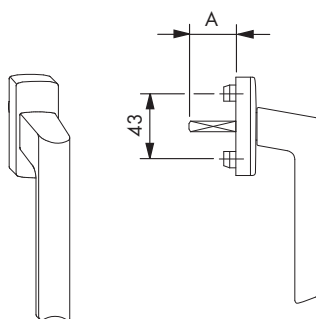
Description	Material	Page
handle Si-line	872130, 844052, 853856, 868973, ZHSS0030	6.3 - 2
handle Si-line SI-AU	ZHSS3160, 893951	6.3 - 4
handle Si-line lockable	852392, 862575, ZHSA3020	6.3 - 5
handle Si-line lockable TBT	873700, 873724	6.3 - 6
handle Si-line SP	871119	6.3 - 7
handle Si-line flat	892473	6.3 - 8
handle SI w/o square spindle	853368	6.3 - 9
handle SIAU w/o square spindle	ZHSO3000	6.3 - 10
handle Si-line TL/PZ	ZMZIP0030, ZMZIP0020, ZMZIP0010, ZMZIP0040, 871423	6.3 - 11
flat handle Si-line TL/PZ	ZMZIP0030, ZMZIP0020, ZMZIP0010, ZMZIP0040, 870488	6.3 - 12
rose Si-line	862605, ZHAN0010	6.3 - 14

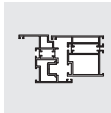


## Technical information

Part number	Description	
872130	handle Si-line 26	2
844052	handle Si-line 31	2
853856	handle Si-line 35	2
868973	handle Si-line 40	2
ZHSS0030-...	handle Si-line 45	2

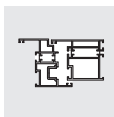
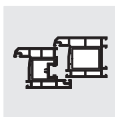
- Lug diameter 12mm
- Dimension A = spindle length






## Sales information

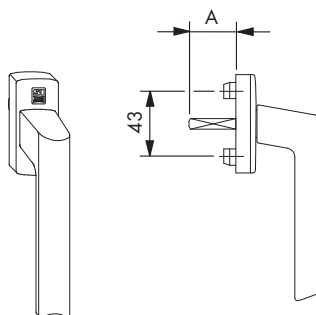
Description	Part number	Surface	Colour	Box quantity
handle Si-line 26	872130	neutral	RAL9016	1 pc
	259078	neutral	RAL9016	10 pcs
	872123	neutral	EV1/EV1	1 pc
	259061	neutral	EV1/EV1	10 pcs
handle Si-line 31	844052	neutral	RAL9003	1 pc
	234990	neutral	RAL9003	100 pcs
	844069	neutral	RAL8019	1 pc
	235003	neutral	RAL8019	100 pcs
	864715	neutral	EV1/EV1	1 pc
	252314	neutral	EV1/EV1	100 pcs
	869024	neutral	EV2 champagne	1 pc
	ZHSS0010-02601_	neutral	EV2 champagne	1 pc
	ZHSS0010-02605_	neutral	EV2 champagne	50 pcs
	239070	neutral	EV2 champagne	100 pcs
	848647	neutral	titan m bright	1 pc
	238981	neutral	titan m bright	100 pcs
	848654	neutral	matt gold	1 pc
	238998	neutral	matt gold	100 pcs
handle Si-line 35	853856	neutral	RAL9003	1 pc
	243947	neutral	RAL9003	100 pcs
	853863	neutral	RAL8019	1 pc
	243954	neutral	RAL8019	100 pcs
	895986	neutral	RAL8022	1 pc
	307250	neutral	RAL8022	100 pcs
	869055	neutral	EV1/EV1	1 pc
	256473	neutral	EV1/EV1	100 pcs
	869352	neutral	EV2 champagne	1 pc
	256756	neutral	EV2 champagne	100 pcs
	869079	neutral	titan m bright	1 pc
	256497	neutral	titan m bright	100 pcs
	869086	neutral	matt gold	1 pc
	256503	neutral	matt gold	100 pcs
handle Si-line 40	868973	neutral	RAL9003	1 pc
	256374	neutral	RAL9003	100 pcs
	ZHSS3210-03401_	neutral	titan m bright	1 pc
	ZHSS3210-03406_	neutral	titan m bright	100 pcs
handle Si-line 45	ZHSS0030-00201_	neutral	RAL9003	1 pc
	ZHSS0030-00206_	neutral	RAL9003	100 pcs
	ZHSS0030-01206_	neutral	RAL8022	100 pcs
	ZHSS0030-02401_	neutral	EV1/EV1	1 pc
	ZHSS0030-02406_	neutral	EV1/EV1	100 pcs



## Technical information

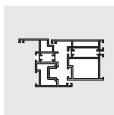
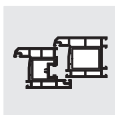
Part number	Description	
ZHSS3160-...	handle Si-line 31	2
893951	handle Si-line 35	2

- With SIEGENIA logo on the cover plate
- Lug diameter 12mm
- Dimension A = spindle length




## Sales information

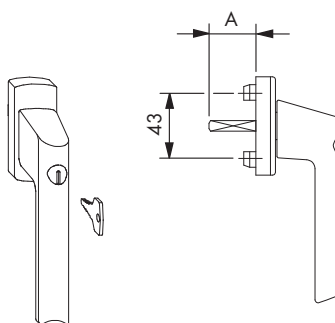
Description	Part number	Surface	Colour	Box quantity
handle Si-line 31	ZHSS3160-00201_	neutral	RAL9003	1 pc
	ZHSS3160-00206_	neutral	RAL9003	100 pcs
handle Si-line 35	893951	neutral	RAL9003	1 pc
	303238	neutral	RAL9003	100 pcs
	893968	neutral	RAL8019	1 pc



## Technical information

Part number	Description	
852392	handle Si-line lockable 31	2
862575	handle Si-line lockable 35	2
ZHSA3020-...	handle Si-line lockable 40	-

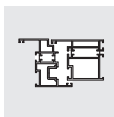
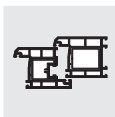
- 100 Nm resistance against breaking and tearing according to DIN EN 1627
- Lug diameter 12mm
- Dimension A = spindle length




## Sales information

Description	Part number	Surface	Colour	Box quantity
handle Si-line lockable 31	852392	neutral	RAL9003	1 pc
	242629	neutral	RAL9003	10 pcs
	852408	neutral	RAL8019	1 pc
	242636	neutral	RAL8019	10 pcs
	868249	neutral	EV1/EV1	1 pc
	255902	neutral	EV1/EV1	10 pcs
	861783	neutral	EV2 champagne	1 pc
	249734	neutral	EV2 champagne	10 pcs
	861776	neutral	titan m bright	1 pc
	249727	neutral	titan m bright	10 pcs
	861790	neutral	matt gold	1 pc
	249741	neutral	matt gold	10 pcs
handle Si-line lockable 35	862575	neutral	RAL9003	1 pc
	250471	neutral	RAL9003	10 pcs
	862582	neutral	RAL8019	1 pc
	250488	neutral	RAL8019	10 pcs
	880647	neutral	EV1/EV1	1 pc
	268360	neutral	EV1/EV1	10 pcs
	900567	neutral	titan m bright	1 pc
	316740	neutral	titan m bright	10 pcs
handle Si-line lockable 40	ZHSA3020-00202_	neutral	RAL9003	10 pcs
	ZHSA3020-03401_	neutral	titan m bright	1 pc
	ZHSA3020-03402_	neutral	titan m bright	10 pcs

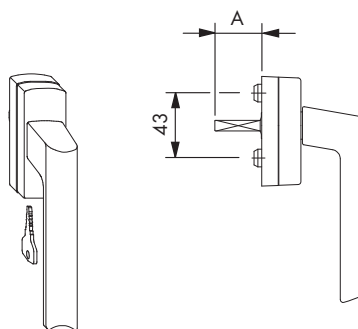




## Technical information

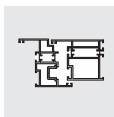
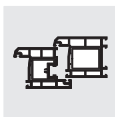
Part number	Description	
873700	handle Si-line lockable/TBT 31	2
873724	handle Si-line lockable/TBT 35	2

- 100 Nm resistance against breaking and tearing according to DIN EN 1627
- Lockable for increased security
- Lockable for TBT operation = TILT before TURN
- Lug diameter 12mm
- Dimension A = spindle length



## Sales information

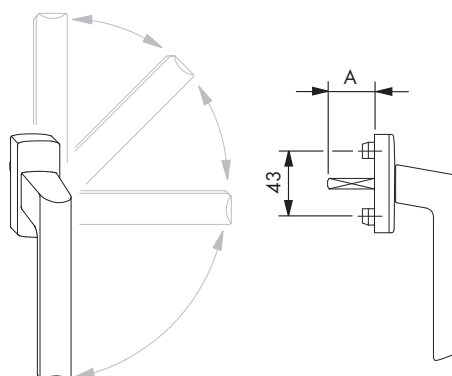
Description	Part number	Surface	Colour	Box quantity
handle Si-line lockable/TBT 31	873700	neutral	RAL9003	1 pc
	260258	neutral	RAL9003	10 pcs
	880258	neutral	EV1/EV1	1 pc
	267776	neutral	EV1/EV1	10 pcs
	879153	neutral	titan m bright	1 pc
	266601	neutral	titan m bright	10 pcs
handle Si-line lockable/TBT 35	873724	neutral	RAL9003	1 pc
	260272	neutral	RAL9003	10 pcs
	260289	neutral	RAL8019	10 pcs
	880272	neutral	EV1/EV1	1 pc
	267790	neutral	EV1/EV1	10 pcs



## Technical information

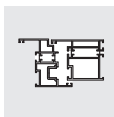
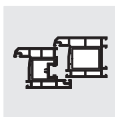
Part number	Description	
871119	handle Si-line SP 35	2

- Additional click-in position at 45°
- For integrated night vent
- Lug diameter 12mm
- Dimension A = spindle length



## Sales information

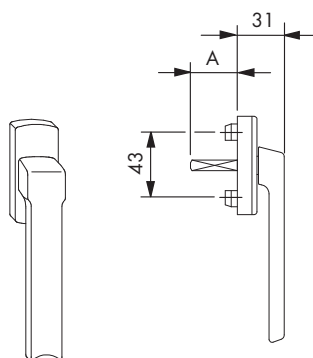
Description	Part number	Surface	Colour	Box quantity
handle Si-line SP 35	871119	neutral	RAL9003	1 pc
	258279	neutral	RAL9003	100 pcs



## Technical information

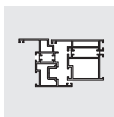
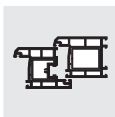
Part number	Description	
892473	handle Si-line flat 35	2

- Lug diameter 12mm
- Dimension A = spindle length




## Sales information

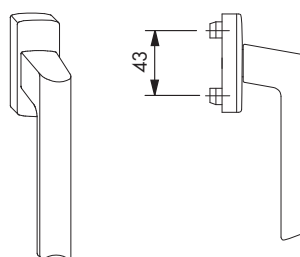
Description	Part number	Surface	Colour	Box quantity
handle Si-line flat 35	892473	neutral	RAL9003	1 pc
	300510	neutral	RAL9003	10 pcs
	892428	neutral	EV1/EV1	1 pc
	300466	neutral	EV1/EV1	10 pcs



## Technical information

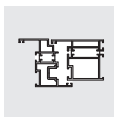
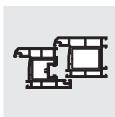
Part number	Description	
853368	handle Si-line no spindle	2

- Suitable for use with Kardan
- Lug diameter 12mm



## Sales information

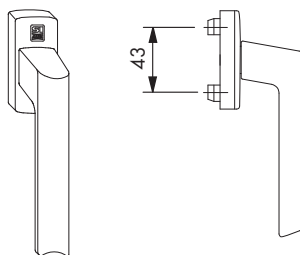
Description	Part number	Surface	Colour	Box quantity
handle Si-line no spindle	853368	neutral	RAL9003	1 pc
	252345	neutral	RAL9003	100 pcs
	853375	neutral	RAL8019	1 pc
	869314	neutral	EV1/EV1	1 pc
	870518	neutral	titan m bright	1 pc
	870525	neutral	matt gold	1 pc



## Technical information

Part number	Description
ZHSO3000-...	handle Si-line no spindle

- With SIEGENIA logo on the cover plate
- Lug diameter 12mm
- Suitable for use with Kardan



## Sales information

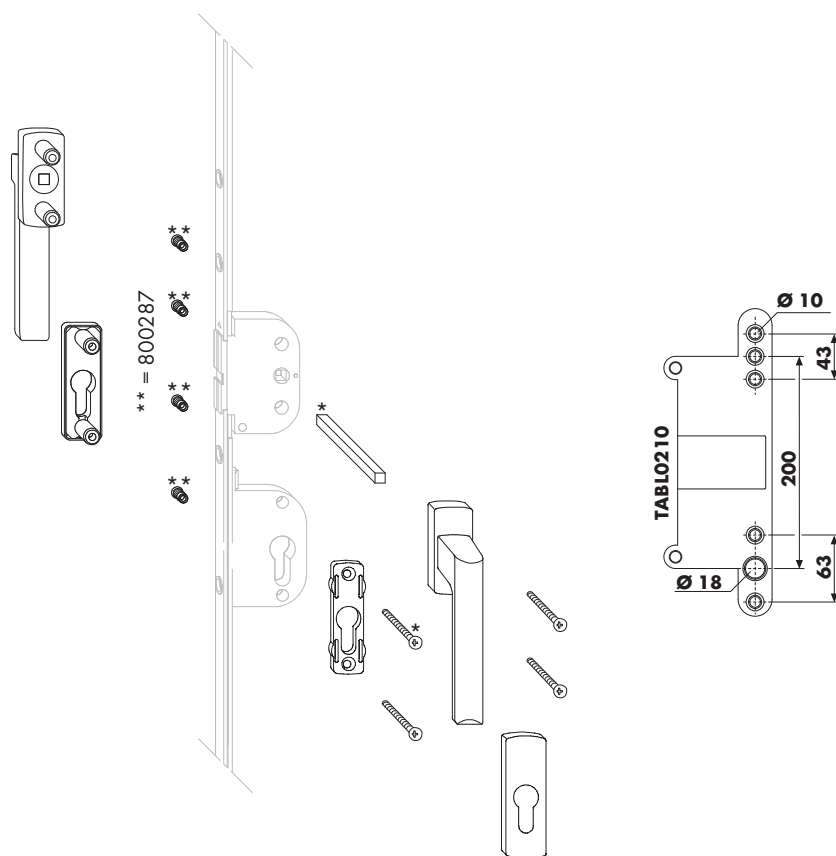
Description	Part number	Surface	Colour	Box quantity
handle Si-line no spindle	ZHSO3000-00201_	neutral	RAL9003	1 pc
	ZHSO3000-00206_	neutral	RAL9003	100 pcs
	ZHSO3000-01101_	neutral	RAL8019	1 pc
	ZHSO3000-01106_	neutral	RAL8019	100 pcs



## Technical information

Part number	Description
ZMZIP0030-...	accessories TL/PZ PD 55-64mm
ZMZIP0020-...	accessories TL/PZ PD 65-74mm
ZMZIP0010-...	accessories TL/PZ PD 75-84mm
ZMZIP0040-...	accessories TL/PZ PD 85-94mm
871423	bag handle SI-LINE TL/PZ

- Lug diameter 12mm
- Suitable for standard profile cylinders
- \* Contents of bag accessories TL/PZ



## Sales information

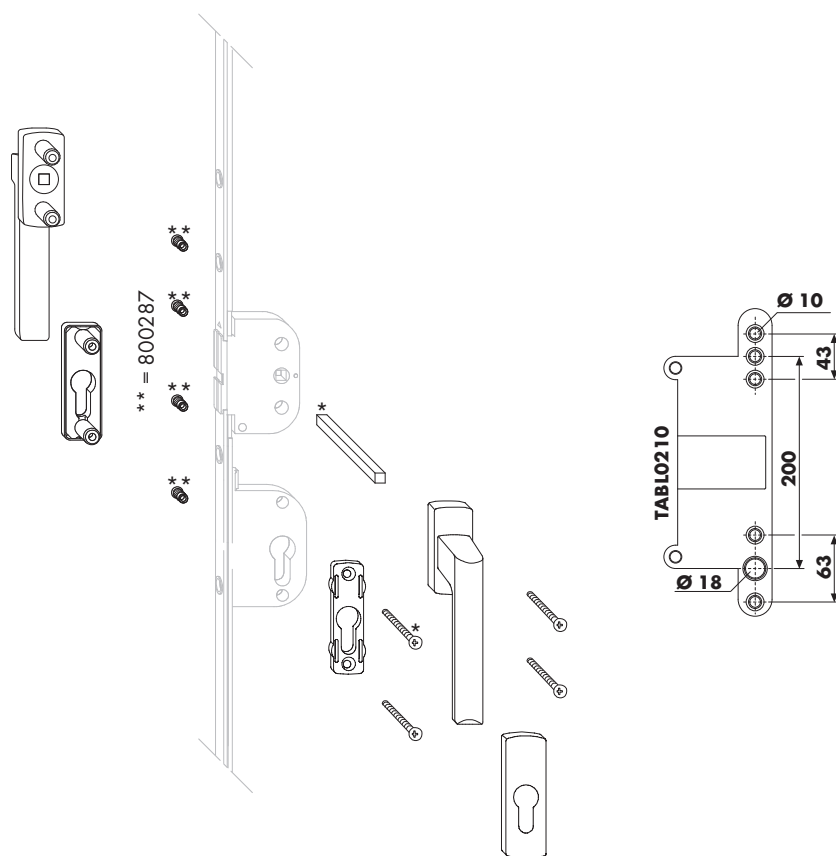
Description	Part number	Surface	Colour	Box quantity
accessories TL/PZ PD 55-64mm	ZMZIP0030-10001_	Titan Silver	without	1 pc
accessories TL/PZ PD 65-74mm	ZMZIP0020-10001_	Titan Silver	without	1 pc
accessories TL/PZ PD 75-84mm	ZMZIP0010-10001_	Titan Silver	without	1 pc
accessories TL/PZ PD 85-94mm	ZMZIP0040-10001_	Titan Silver	without	1 pc
bag handle SI-LINE TL/PZ	871423	neutral	RAL9003	1 pc
	258538	neutral	RAL9003	10 pcs
	871430	neutral	RAL8019	1 pc
	258545	neutral	RAL8019	10 pcs
	871379	neutral	Si-silver	1 pc
	258484	neutral	Si-silver	10 pcs
	871393	neutral	titan m bright	1 pc
	258507	neutral	titan m bright	10 pcs



## Technical information

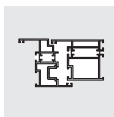
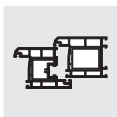
Part number	Description
ZMZIP0030-...	accessories TL/PZ PD 55-64mm
ZMZIP0020-...	accessories TL/PZ PD 65-74mm
ZMZIP0010-...	accessories TL/PZ PD 75-84mm
ZMZIP0040-...	accessories TL/PZ PD 85-94mm
870488	bag handle SI-LINE TL/PZ flat

- Lug diameter 12mm
- Suitable for standard profile cylinders
- \* Contents of bag accessories TL/PZ




## Sales information

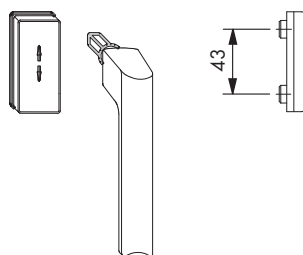
Description	Part number	Surface	Colour	Box quantity
accessories TL/PZ PD 55-64mm	ZMZIP0030-10001_	Titan Silver	without	1 pc
accessories TL/PZ PD 65-74mm	ZMZIP0020-10001_	Titan Silver	without	1 pc
accessories TL/PZ PD 75-84mm	ZMZIP0010-10001_	Titan Silver	without	1 pc
accessories TL/PZ PD 85-94mm	ZMZIP0040-10001_	Titan Silver	without	1 pc
bag handle SI-LINE TL/PZ flat	870488	neutral	RAL9003	1 pc
	257944	neutral	RAL9003	10 pcs
	870495	neutral	RAL8019	1 pc
	257951	neutral	RAL8019	10 pcs
	870433	neutral	EV1/EV1	1 pc
	257890	neutral	EV1/EV1	10 pcs
	870457	neutral	titan m bright	1 pc
	257913	neutral	titan m bright	10 pcs



## Technical information

Part number	Description	
862605	rose SI-LINE ..	-
ZHAN0010-...	handle Si-line detachable 45	0

- Combinable with removable handles
- Lug diameter 12mm

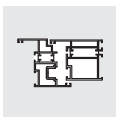
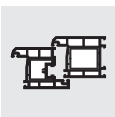


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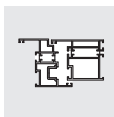
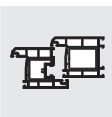
Description	Part number	Surface	Colour	Box quantity
rose SI-LINE ..	862605	neutral	RAL9003	1 pc
	250495	neutral	RAL9003	10 pcs
	869833	neutral	RAL8019	1 pc
	257418	neutral	RAL8019	10 pcs
	869826	neutral	EV1/EV1	1 pc
	257401	neutral	EV1/EV1	10 pcs
	ZHSR0010-52301_	alu	RAL9005	1 pc
	ZHSR0010-52302_	alu	RAL9005	10 pcs
handle Si-line detachable 45	ZHAN0010-00201_	neutral	RAL9003	1 pc
	ZHAN0010-00204_	neutral	RAL9003	25 pcs
	ZHAN0010-02401_	neutral	EV1/EV1	1 pc
	ZHAN0010-02404_	neutral	EV1/EV1	25 pcs





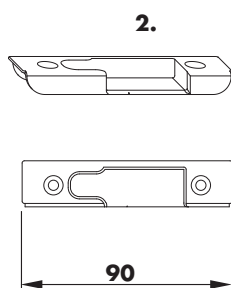
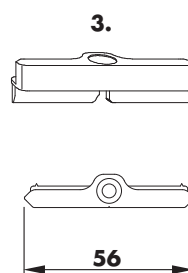
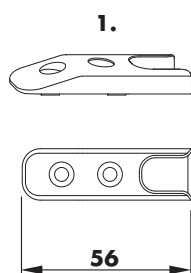


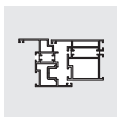
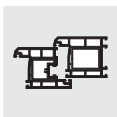
<b>Description</b>	<b>Material</b>	<b>Page</b>
striker plate 56	-	7 - 2
striker plate S 56	-	7 - 3
striker plate S 56 H	-	7 - 4
striker plate S(L)-RS	-	7 - 5
striker plate S(L)-RS WK2 BSO	-	7 - 6
tilt lock bearing 56 S(L)-RS	-	7 - 7
tilt lock bearing S-ES/SL-S FH	-	7 - 8
tilt lock bearing S-ES FH TBT	-	7 - 9
striker snapper	-	7 - 10
striker plate A0767	TRSA0010	7 - 11
striker plate BS 15°	708873, 718438, 713389	7 - 12
frame parts vent secure	-	7 - 13
frame part SP-S	-	7 - 15
shoot bolt	-	7 - 16
shoot bolt	-	7 - 17
shoot bolt A2000	716236, 701195, 701126	7 - 18
shoot bolt	TFKR0040, TFKR0050	7 - 19
shoot bolt	TFKR0060	7 - 20
shoot bolt VSO	TFKR0080	7 - 22
shoot bolt RSA 11	TFKR0070	7 - 23
snapper	-	7 - 24



## Technical information

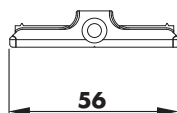
- Striker plate 56 profile-related, refer to PDB line item FRSB
- 1. Version for timber 12 mm systems
- 2. Version for timber 4 mm systems
- 3. Version for KF profile systems
- Made of a diecast material
- The depicted version are examples and may vary depending on the profile system.

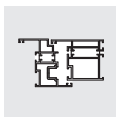
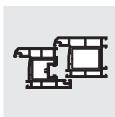




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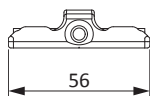
- Striker plate S 56 profile-related, refer to PDB line item TRSM
- PVC-steel variant
- The depicted version are examples and may vary depending on the profile system.

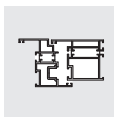
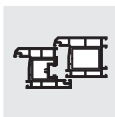




## Technical information

- Striker plate S 56 H profile-related, refer to PDB line item TRSN
- The depicted version are examples and may vary depending on the profile system.

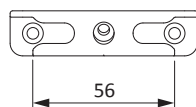




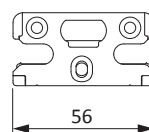
## Technical information

- Striker plate S(L)-RS profile-related, refer to PDB line item TRSK
- SL components are made of a special alloy diecast
- 1. Version for timber 12 mm systems
- 2. Version for timber 4 mm systems
- 3. Version for KF profile systems
- The depicted version are examples and may vary depending on the profile system.

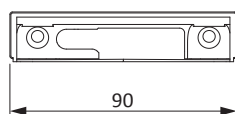
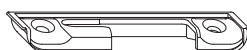
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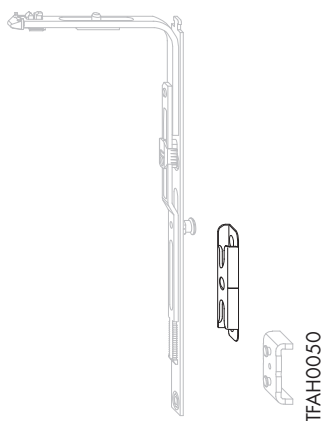
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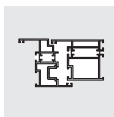
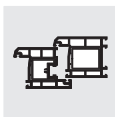




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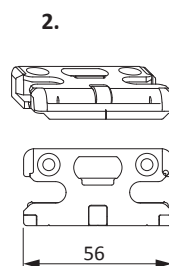
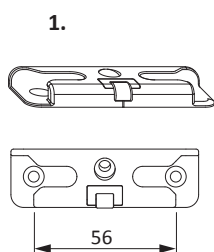
- Striker plate SL-RS WK2 BSO profile-related, refer to PDB line item TRSK03
- The depicted version are examples and may vary depending on the profile system.



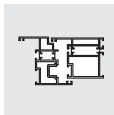
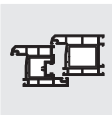


## Technical information

- Tilt lock bearing 56 S(L)-RS profile-related, refer to PDB line item TRKF
- 1. Version for timber 12 mm systems  
2. Version for KF profile systems
- SL components are made of a special alloy diecast
- The depicted version are examples and may vary depending on the profile system.
- **Please observe:**  
Guidelines/notes on the product and on liability (VHBH directive as well as the other applicable documents listed - directive can be downloaded at [www.beschlagindustrie.de/ggsb/richtlinien.asp](http://www.beschlagindustrie.de/ggsb/richtlinien.asp) )  
Specifications from the profile manufacturers/system owners (PVC, light metal) or DIN 68 121 "Wooden profiles for windows and portal doors"



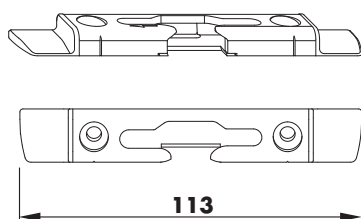




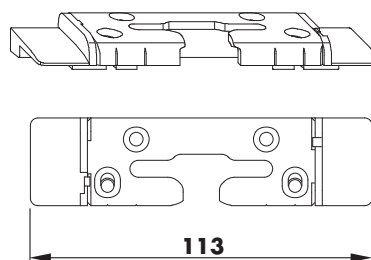
## Technical information

- Tilt lock bearing S-ES (SL-S) FH profile-related, refer to PDB line item FRKA (FRKJ)
- 1. Version for timber 12 mm systems  
2. Version for timber 4 mm systems  
3. Version for KF profile systems
- SL components are made of a special alloy diecast
- The depicted version are examples and may vary depending on the profile system.
- **Please observe:**  
Guidelines/notes on the product and on liability (VHBH directive as well as the other applicable documents listed - directive can be downloaded at [www.beschlagindustrie.de/ggsb/richtlinien.asp](http://www.beschlagindustrie.de/ggsb/richtlinien.asp) )  
Specifications from the profile manufacturers/system owners (PVC, light metal) or DIN 68 121 "Wooden profiles for windows and portal doors"

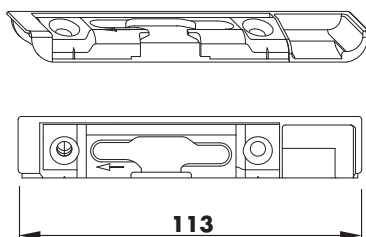
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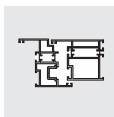
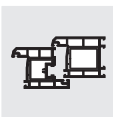


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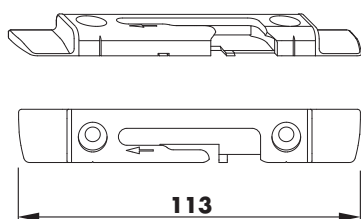




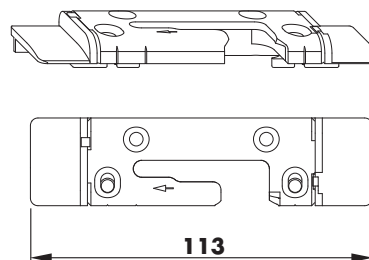
## Technical information

- Tilt lock bearing S-ES FH TBT profile-related, refer to PDB line item FRKB
- 1. Version for timber 12 mm systems
- 2. Version for timber 4 mm systems
- 3. Version for KF profile systems
- The depicted version are examples and may vary depending on the profile system.
- **Please observe:**  
Guidelines/notes on the product and on liability (VHBH directive as well as the other applicable documents listed - directive can be downloaded at [www.beschlagindustrie.de/ggsb/richtlinien.asp](http://www.beschlagindustrie.de/ggsb/richtlinien.asp) )  
Specifications from the profile manufacturers/system owners (PVC, light metal) or DIN 68 121 "Wooden profiles for windows and portal doors"

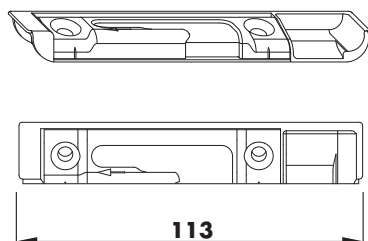
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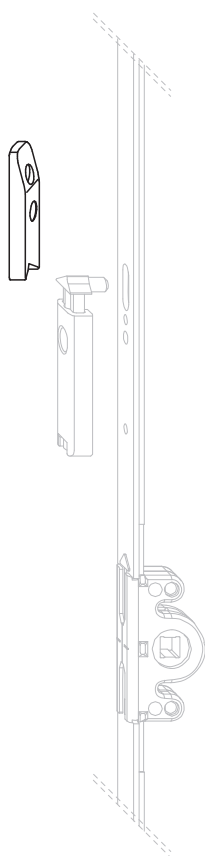
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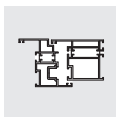
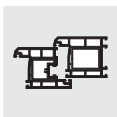





## Technical information

- Snapper striker profile-related, refer to PDB line item TRST
- The depicted version are examples and may vary depending on the profile system.

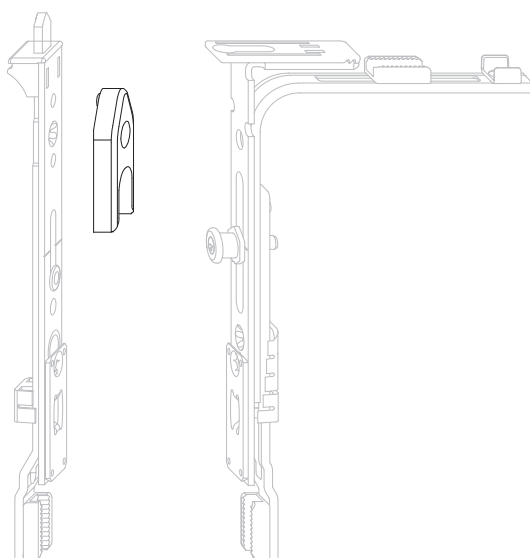




## Technical information

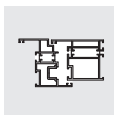
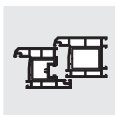
Part number	Description	
TRSA0010-...	striker plate A0767	1

- For minimum window widths with a floating mullion




## Sales information

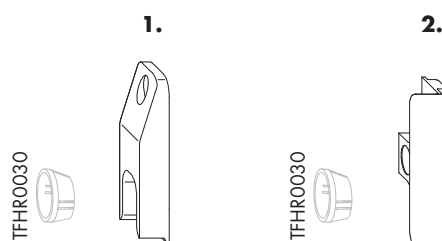
Description	Part number	Surface	Colour	Box quantity
striker plate A0767	TRSA0010-10001_	Titan Silver	without	1 pc
	TRSA0010-10005_	Titan Silver	without	50 pcs



## Technical information

Part number	Description	
708873	striker plate BS/15 degr. A0813	1
718438	striker plate BS/15 degr. A1361	2

- 1. Version for timber 12 mm systems
- 2. Version for KF profile systems
- Versions suitable for:
  - A0380 = eurogroove 6/8x3
  - A0807 = eurogroove 7/8x4
  - A0813 = eurogroove 7/8x4
  - A1361 = eurofold 18/8
  - A0767/1 = opposing fitting groove with DSG gear
  - A2000 = opposing fitting groove 12 mm cavity
- The depicted version are examples and may vary depending on the profile system.



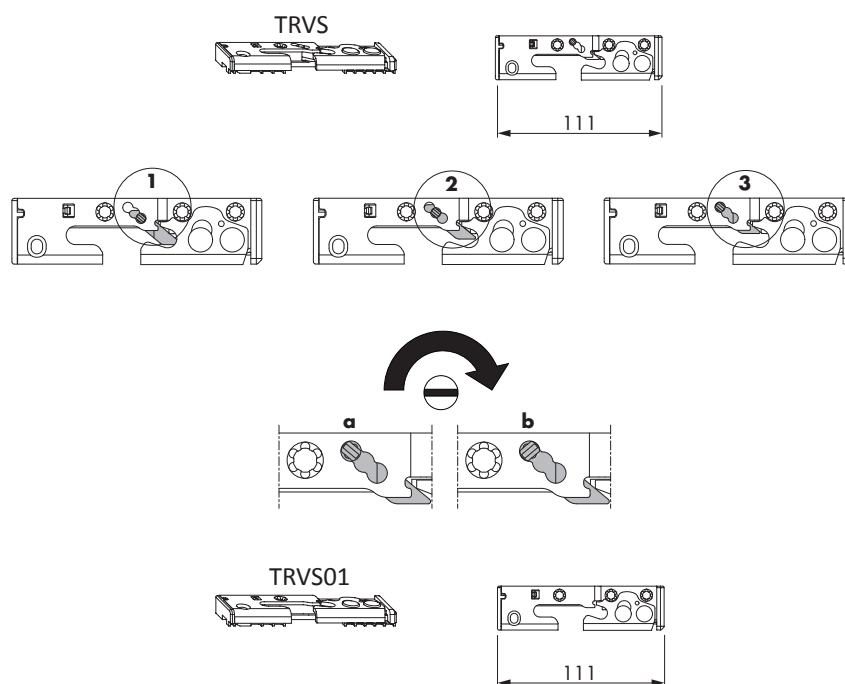
## Sales information

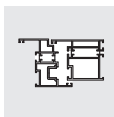
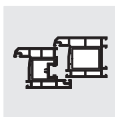
Description	Part number	Surface	Colour	Box quantity
striker plate BS/15 degr. A0813	708873	Titan Silver	without	1 pc
	285404	Titan Silver	without	500 pcs
striker plate BS/15 degr. A1361	718438	Titan Silver	without	1 pc



## Technical information

- profile-related striker plate S-RS/KS, see PDB TRVS
- profile-related striker plate S-RS/KS-VS/BS, see PDB TRVS01
- TITAN vent secure: secure night vent
- with an opening width of max. 10 mm at the top a continuous air exchange is ensured and the window is protected against intruders (up to RC2) and driving rain even in the ventilation position
- Adjustment options striker plate S-RS/KS:
  - 1 maximum opening width 10.0 mm
  - 2 medium opening width 7.5 mm
  - 3 minimum opening width 5.0 mm
  - a slider position moveable
  - b slider position fixed
- The depicted version are examples and may vary depending on the profile system.
- **Please observe:**  
Guidelines/notes on the product and on liability (VHBH directive as well as the other applicable documents listed - directive can be downloaded at [www.beschlagindustrie.de/ggsb/richtlinien.asp](http://www.beschlagindustrie.de/ggsb/richtlinien.asp)) Specifications from the profile manufacturers/system owners (PVC, light metal) or DIN 68 121 "Wooden profiles for windows and portal doors"





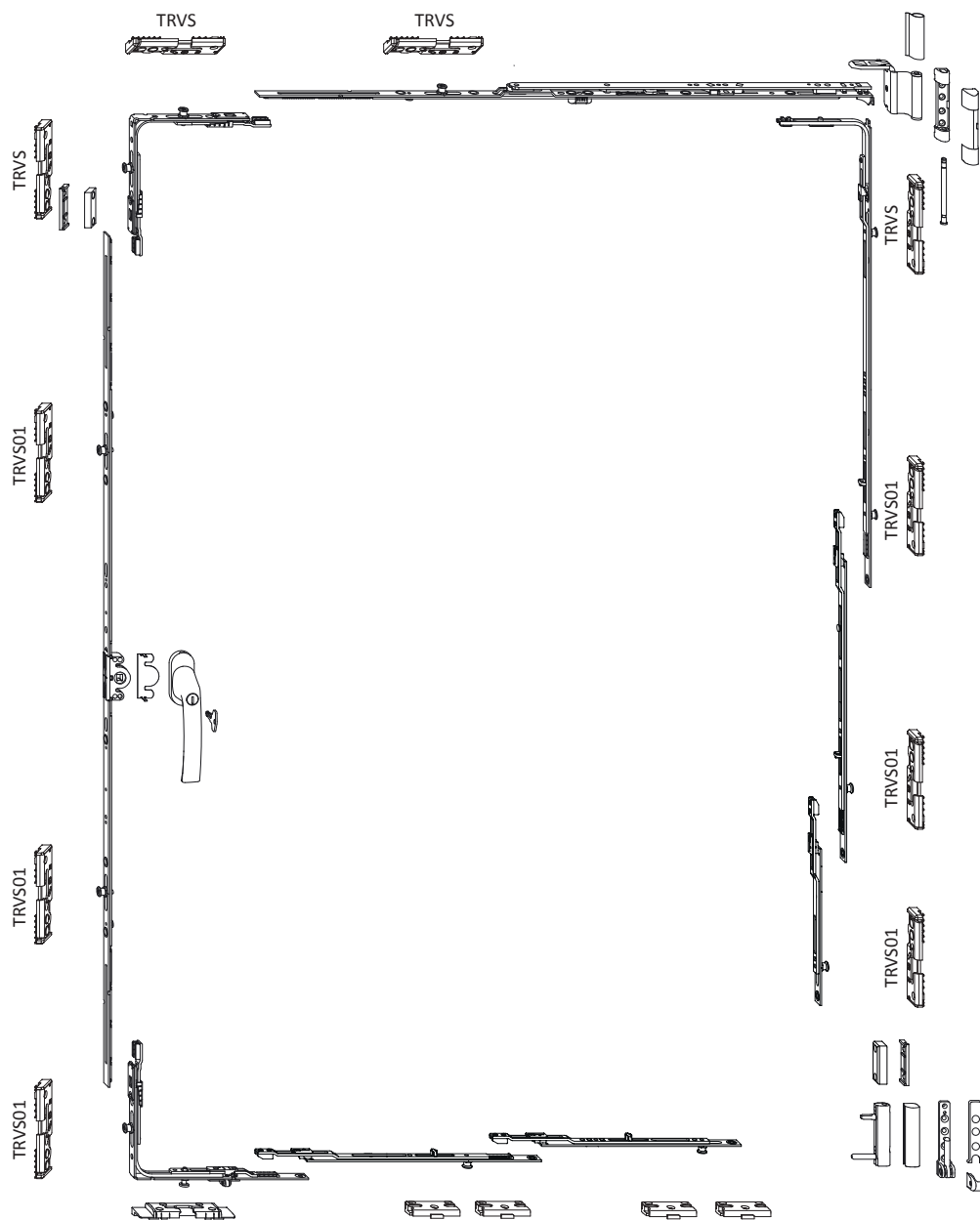
## Installation advice

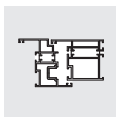
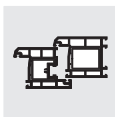
- the additional S-RS striker plates must be placed horizontally at the bottom, so that the sash is even locked in the tilt position and lies flush on the seal. This is necessary so that intruder resistance and protection against driving rain are achieved

the striker plates S-RS/KS and S-RS/KS-VS/BS are placed central to the cam

TRVS = striker plate S-RS/KS (with slider), slider position 1

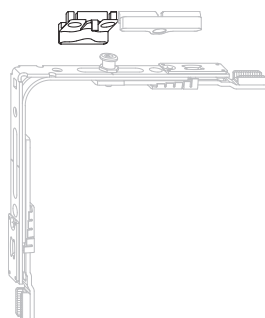
TRVS01 = striker plate S-RS/KS-VS/BS (without slider)



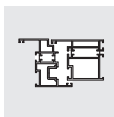
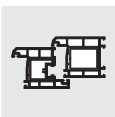


## Technical information

- Frame part SP-S profile-related, refer to PDB line item FRZL01
- The depicted version are examples and may vary depending on the profile system.

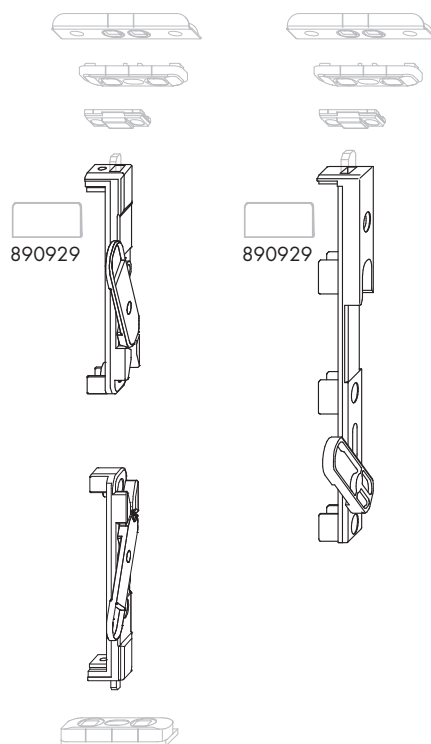






## Technical information

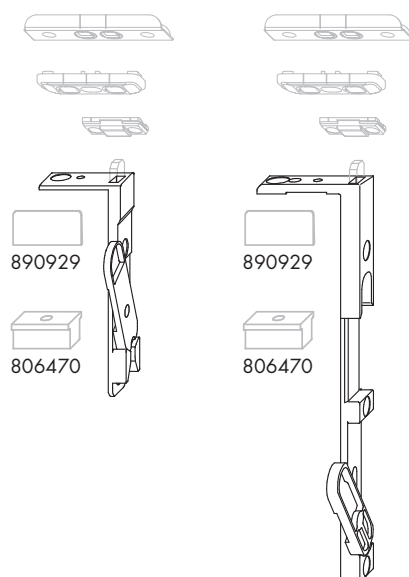
- Shoot bolt profile-related, refer to PDB line item FFKR
- For suitable strikers refer to PDB line item FRZV01
- Automatic locking of the shoot bolt lever as the master sash is closed against it
- The depicted version are examples and may vary depending on the profile system.






## Technical information

- Shoot bolt profile-related, refer to PDB line item FFKR
- For suitable strikers refer to PDB line item FRZV01
- Automatic locking of the shoot bolt lever as the master sash is closed against it
- The depicted version are examples and may vary depending on the profile system.

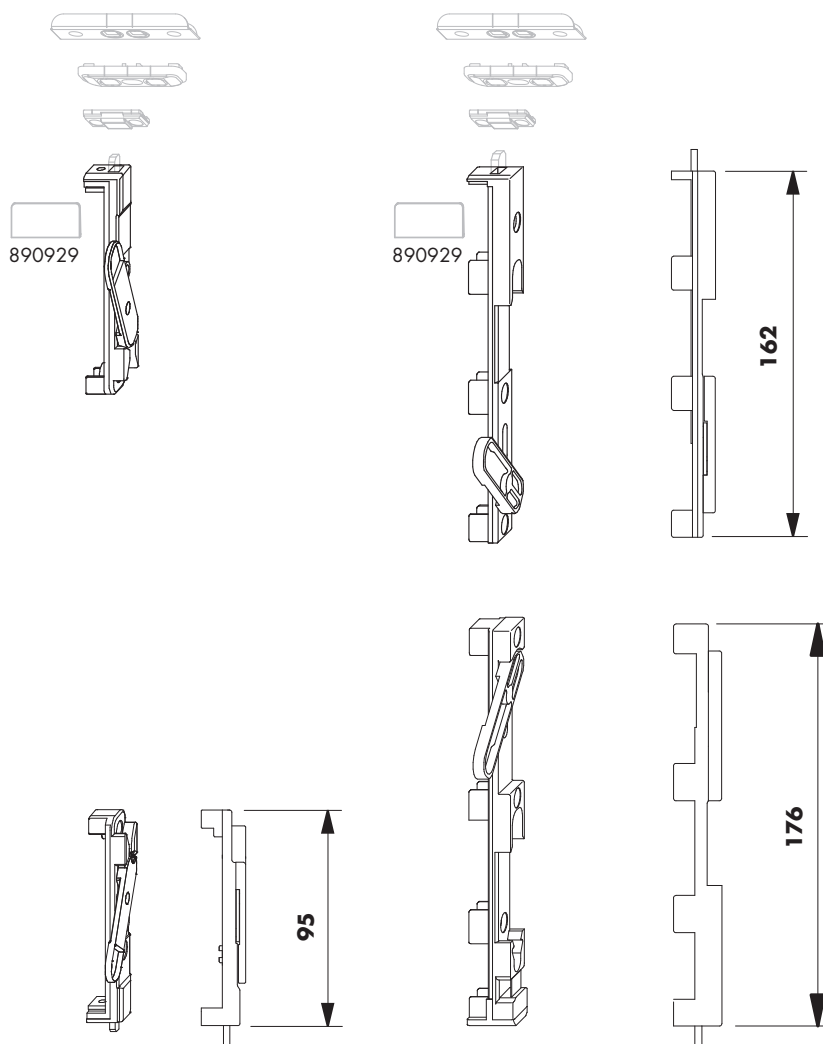




## Technical information

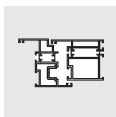
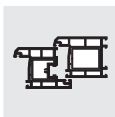
Part number	Description	
716236	short shoot bolt A2000	2
701195	shoot bolt VSO A2000	3
701126	shoot bolt VSU A2000	3

- Use in slave sashes with opposing fitting groove
- Automatic locking of the protruded shootbolt by means of closing over the main sash
- Refer to the PDB for matching strikers
- 890929 Cover angle
- For basic security




## Sales information

Description	Part number	Surface	Colour	Box quantity
short shoot bolt A2000	716236	Titan Silver	without	1 pc
	299623	Titan Silver	without	25 pcs
shoot bolt VSO A2000	701195	Titan Silver	without	1 pc
	276501	Titan Silver	without	25 pcs
shoot bolt VSU A2000	701126	Titan Silver	without	1 pc
	276433	Titan Silver	without	25 pcs

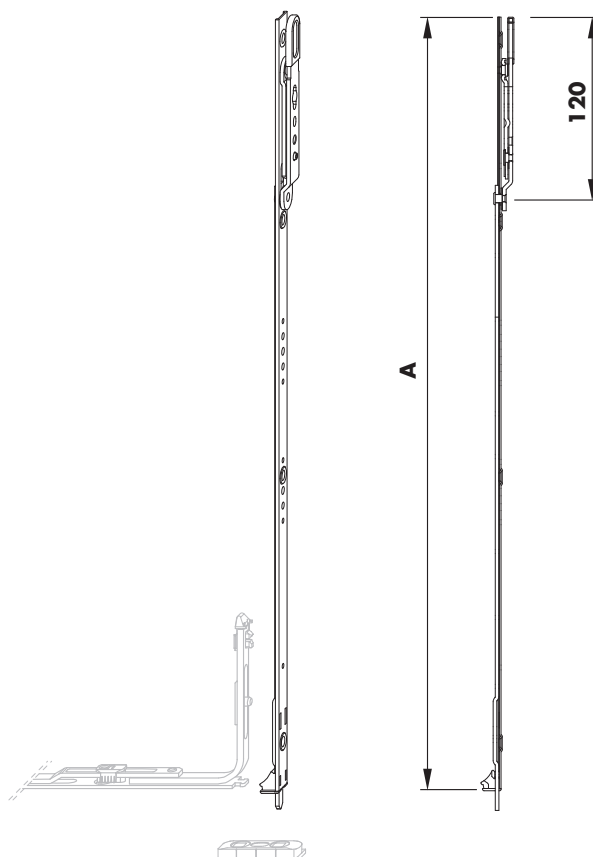


## Technical information

Part number	Description	Dimensions (mm)	
		A	
TFKR0040-...	shoot bolt sz 1 RSA 14	234	3
TFKR0050-...	shoot bolt sz 2 RSA 14	512	5

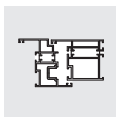
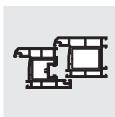


- Use in slave sashes with opposing fitting groove
- For suitable strikers refer to PDB line item FRZV01
- for RSA 14: if necessary, rework profiles in the rod throw section!
- For basic security
- Shootbolt sz 2 can be coupled



## Sales information

Description	Part number	Surface	Colour	Box quantity
shoot bolt sz 1 RSA 14	TFKR0040-10001_	Titan Silver	without	1 pc
	TFKR0040-10004_	Titan Silver	without	25 pcs
shoot bolt sz 2 RSA 14	TFKR0050-10001_	Titan Silver	without	1 pc
	TFKR0050-10004_	Titan Silver	without	25 pcs

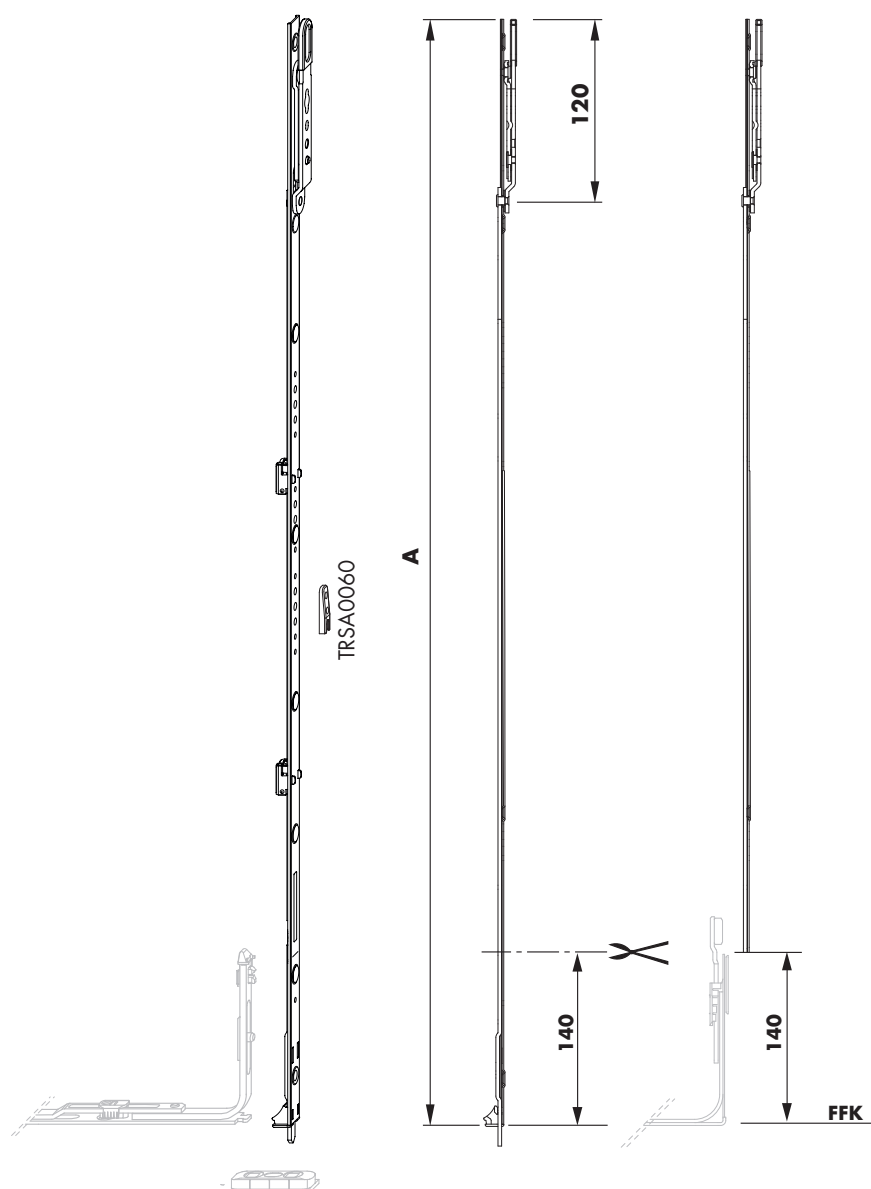


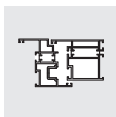
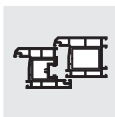
## Technical information

Part number	Description	Dimensions (mm) A	
TFKR0060-...	shoot bolt sz 3 RSA 14	1247	8



- Use in slave sashes with opposing fitting groove
- For suitable strikers refer to PDB line item FRZV01
- for RSA 14: if necessary, rework profiles in the rod throw section!
- For basic security
- Component can be coupled



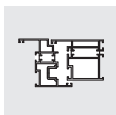
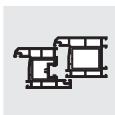


shoot bolt

TITAN

## Sales information

Description	Part number	Surface	Colour	Box quantity
shoot bolt sz 3 RSA 14	TFKR0060-10001_	Titan Silver	without	1 pc
	TFKR0060-10004_	Titan Silver	without	25 pcs

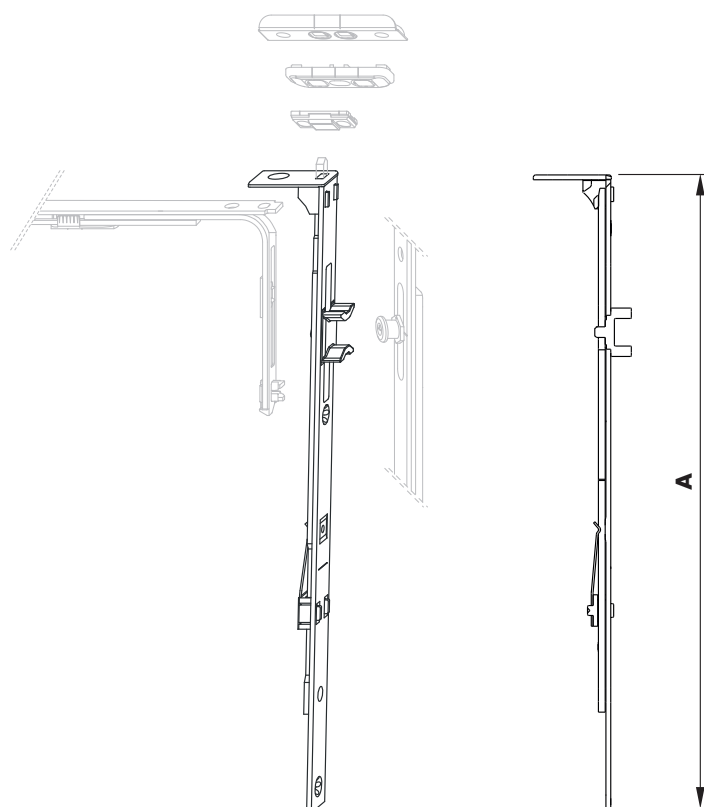


## Technical information

Part number	Description	Dimensions (mm) A	
TFKR0080-...	shoot bolt VSO o.H. RSA 14	260	3

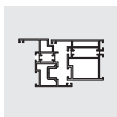
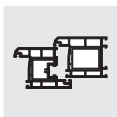


- Use in slave sashes with opposing fitting groove
- Automatic locking of the protruded shootbolt by means of closing over the main sash
- For suitable strikers refer to PDB line item FRZV01
- for RSA 14: if necessary, rework profiles in the rod throw section!
- For basic security
- Component can be coupled

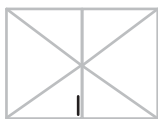


## Sales information

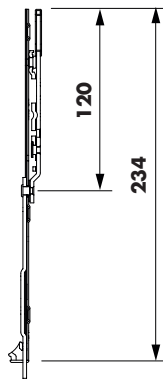
Description	Part number	Surface	Colour	Box quantity
shoot bolt VSO o.H. RSA 14	TFKR0080-10001_	Titan Silver	without	1 pc
	TFKR0080-10004_	Titan Silver	without	25 pcs



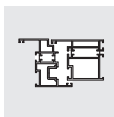
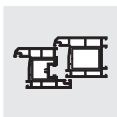
## Technical information



- Use in slave sashes with opposing fitting groove
- For suitable strikers refer to PDB line item FRZV01
- For basic security







## Technical information

- Snapper profile-related, refer to PDB line item FRZB and FRZB01
- 1. Version for 4 mm airgap
- 2. Version for 12 mm airgap
- 3. Version for use on secondary sashes
- The depicted version are examples and may vary depending on the profile system.
- Sleeve profile-related, refer to PDB line item FFHU

