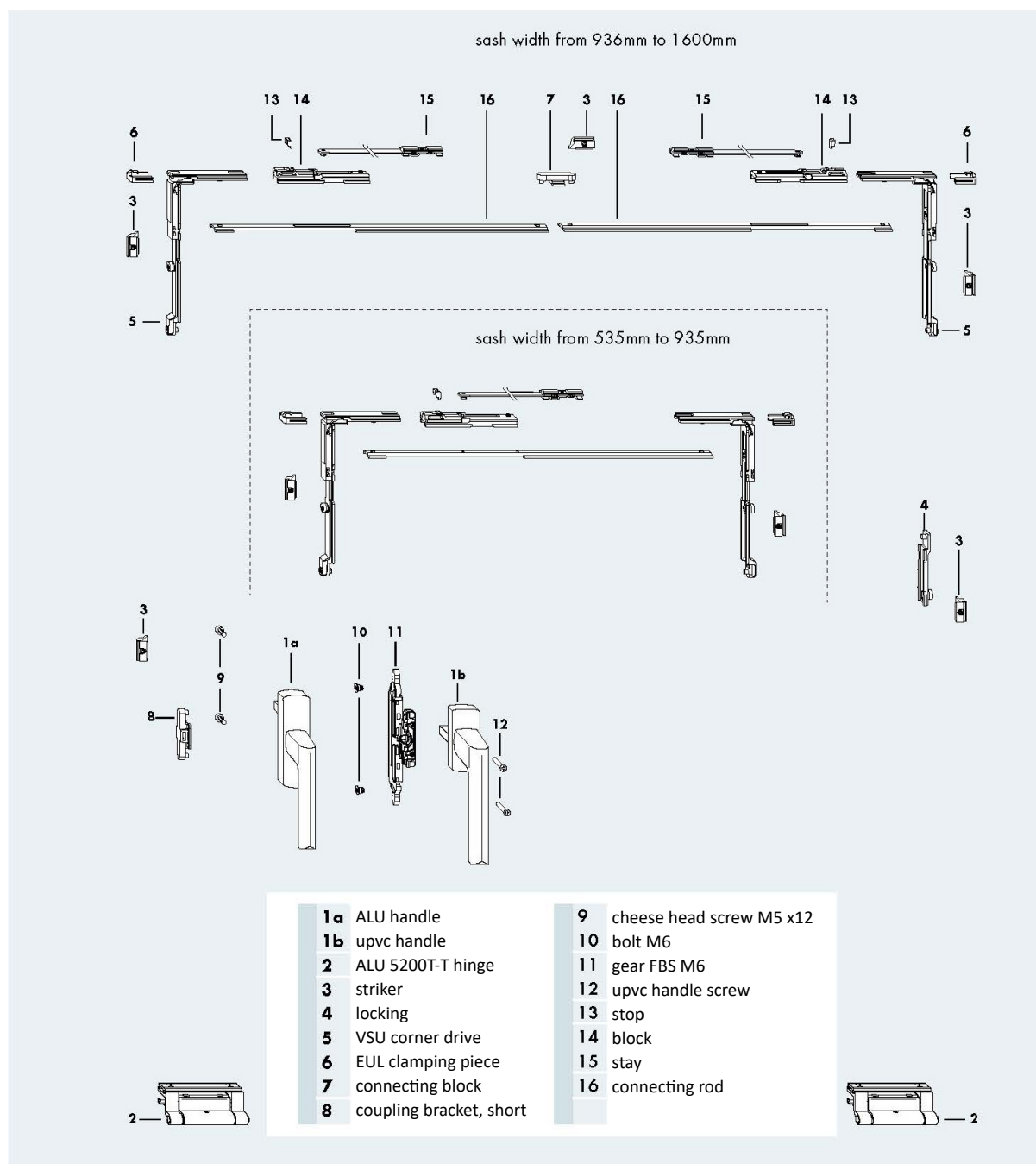
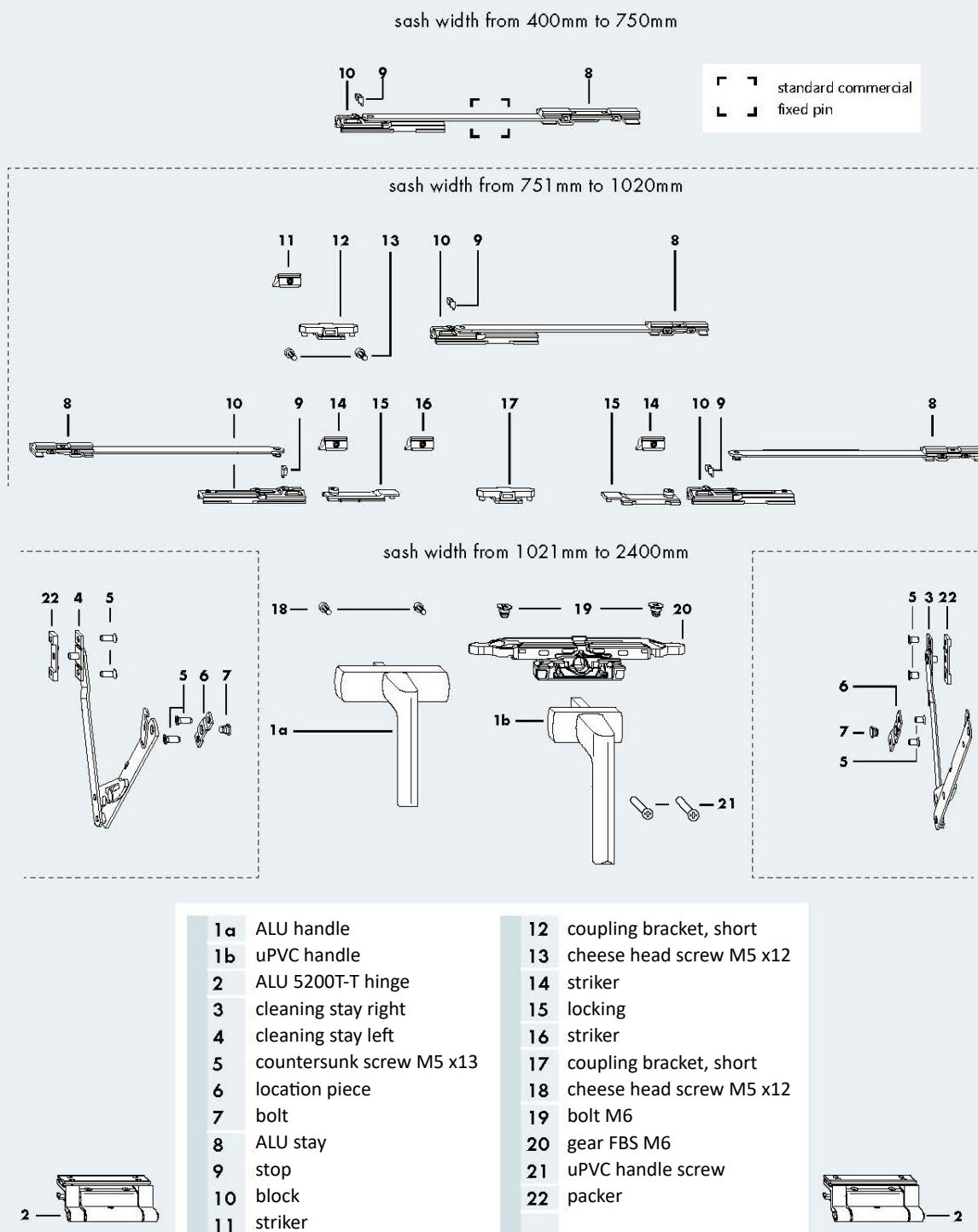


ALU Tilt Only - 5200K Side Handle Position



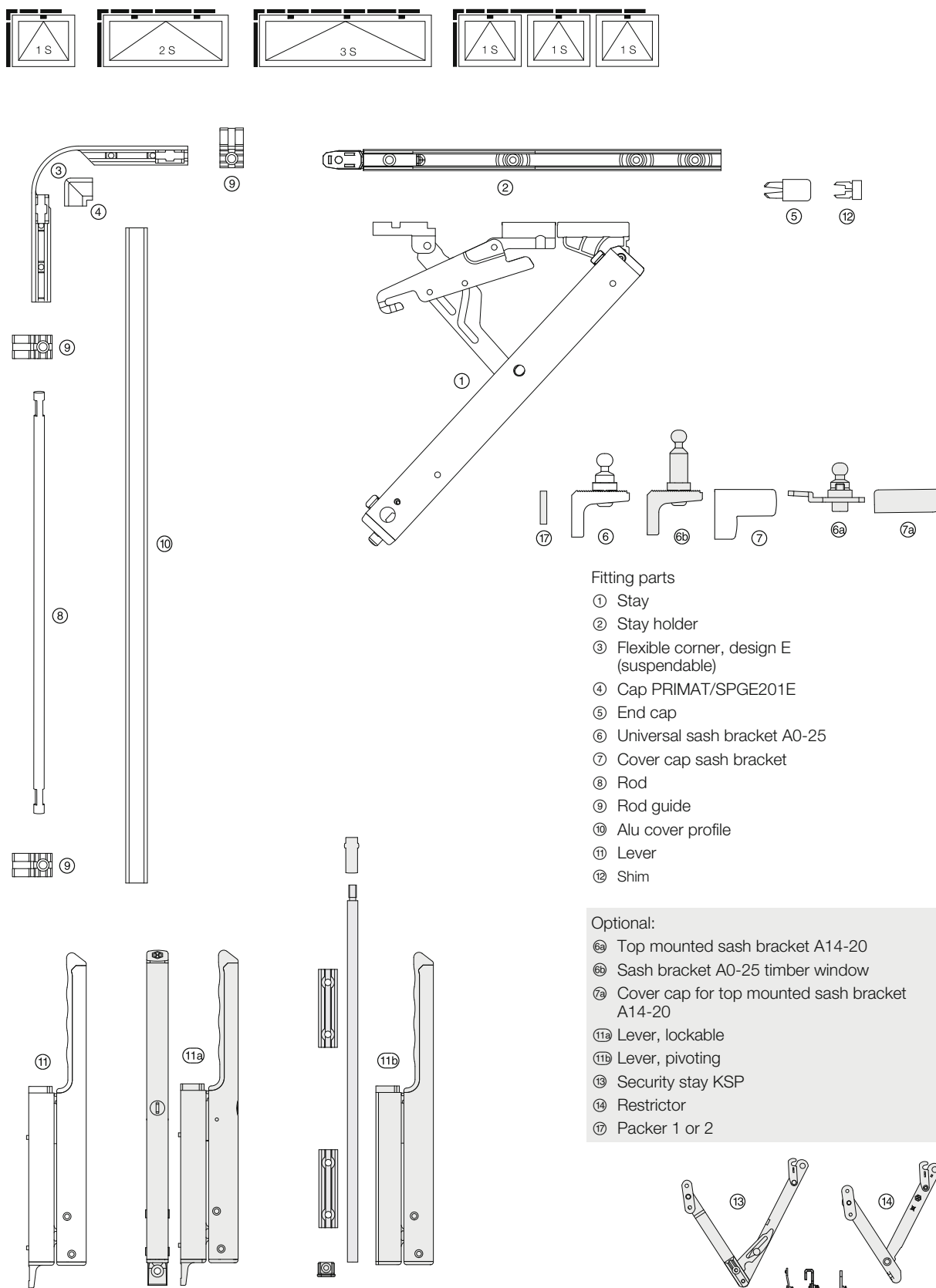
	1 pc connecting rod	2 pc connecting rod
sash width (mm)	min. 535 - max. 935	min. 936 - max. 1600
sash height (mm)	min. 500 - max. 2000	min. 500 - max. 2000
bearing (kg)	max. 40	max. 100

ALU Tilt Only - 5200K Top Handle Position



	1 pc connecting rod	2 pc connecting rod
sash width (mm)	min. 400 - max. 1020	min. 1020 - max. 2400
sash height (mm)	min. 450 - max. 1200	min. 450 - max. 1200
bearing (kg)	max. 30	max. 50

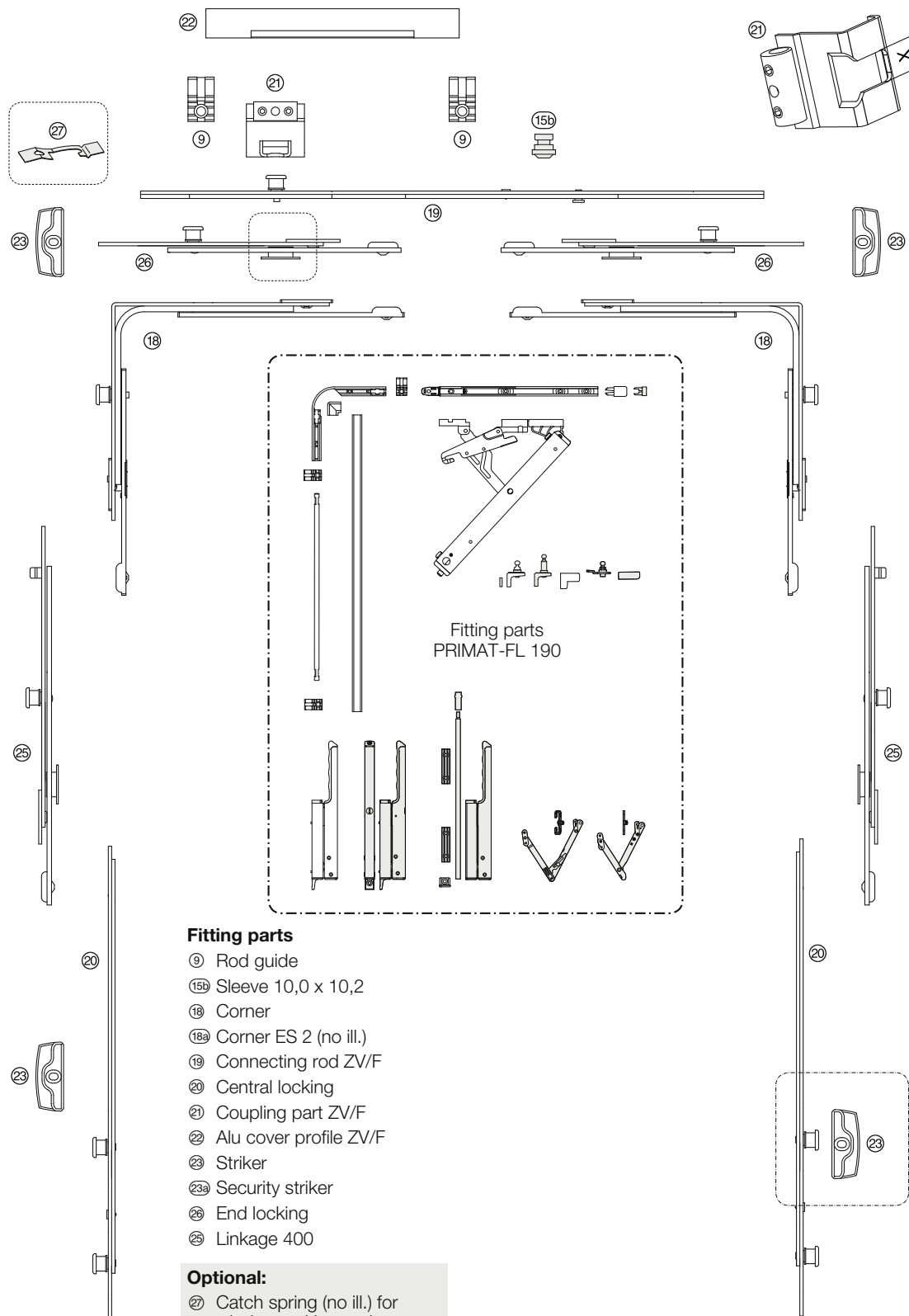
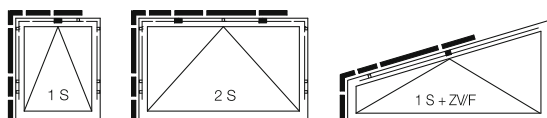
Primat FL 190 - Fanlight Opener



Primat FL 190 - Fanlight Opener - continued

Product code	Description	Reference	Length (mm)	Colour	Packaging unit
173002	Basic carton PRIMAT-FL 190, design E, with universal sash bracket A0-25	1, 2, 3, 4, 5, 6, 7, 9, 11	-	silver	1
173005	Basic carton PRIMAT-FL 190, design E, with universal sash bracket A0-25	1, 2, 3, 4, 5, 6, 7, 9, 11	-	white	1
173008	Basic carton PRIMAT-FL 190, design E, with universal sash bracket A0-25	1, 2, 3, 4, 5, 6, 7, 9, 11	-	black	1
236246	Basic carton PRIMAT-FL 190, design E, with timber sash bracket AH0-25	1, 2, 3, 4, 5, 6b, 7, 9, 11	-	silver	1
173056	Additional carton PRIMAT-FL 190, with universal sash bracket A0-25	1,2,6,7,9,12	-	silver	1
173059	Additional carton PRIMAT-FL 190, with universal sash bracket A0-25	1,2,6,7,9,12	-	white	1
173062	Additional carton PRIMAT-FL 190, with universal sash bracket A0-25	1,2,6,7,9,12	-	black	1
234862	Additional carton PRIMAT-FL 190, with timber sash bracket AH0-25	1,2,6b,7,9,12	-	silver	1
108041	Rod 8mm diameter, design E	8	1000	silver	1
108044	Rod 8mm diameter, design E	8	2000	silver	1
108047	Rod 8mm diameter, design E	8	2500	silver	1
108050	Rod 8mm diameter, design E	8	3000	silver	1
108053	Rod 8mm diameter, design E	8	3750	silver	1
168869	Alu cover profile	10	2000	silver	1
168872	Alu cover profile	10	2000	white	1
168881	Alu cover profile	10	2000	black	1
168839	Alu cover profile	10	3000	silver	1
168842	Alu cover profile	10	3000	white	1
168851	Alu cover profile	10	3000	black	1
171050	Lever - lockable	11a	-	silver	1
171053	Lever - lockable	11a	-	white	1
171059	Lever - lockable	11a	-	black	1
173266	Top mounted sash bracket A14-20	6a	-	-	1
127904	Cover cap for top mounted sash bracket A14-20	7a	-	silver	1
127889	Cover cap for top mounted sash bracket A14-20	7a	-	white	1
127901	Cover cap for top mounted sash bracket A14-20	7a	-	black	1

Primat FL 190 - Fanlight Opener Accessories



Fitting parts

- ⑨ Rod guide
- ⑮ Sleeve 10,0 x 10,2
- ⑱ Corner
- ⑱a Corner ES 2 (no ill.)
- ⑲ Connecting rod ZV/F
- ⑳ Central locking
- ㉑ Coupling part ZV/F
- ㉒ Alu cover profile ZV/F
- ㉓ Striker
- ㉓a Security striker
- ㉔ End locking
- ㉕ Linkage 400

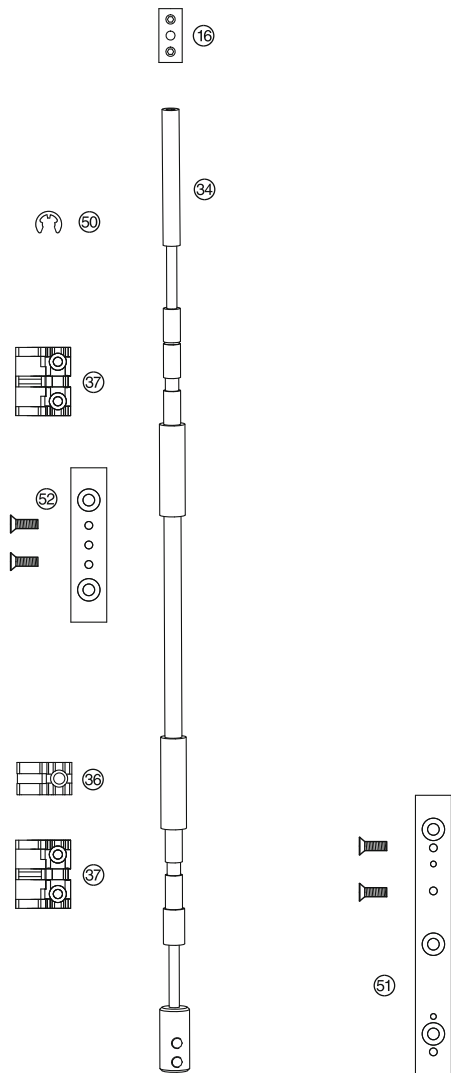
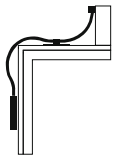
Optional:

- ㉗ Catch spring (no ill.) for windows with top slant and side hung window

Primat FL 190 - Fanlight Opener Accessories - continued

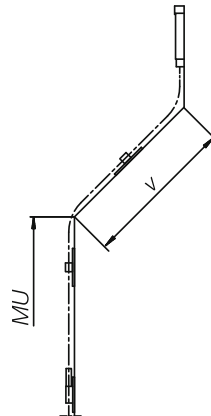
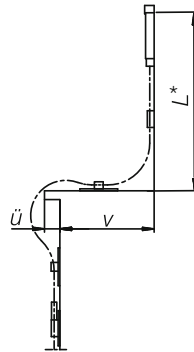
Product code	Description	Reference	Colour	Packaging unit
225316	Accessories ZV/F (coupling parts)	21, 22, 9	silver	1
225319	Accessories ZV/F (coupling parts)	21, 22, 9	white	1
225322	Accessories ZV/F (coupling parts)	21, 22, 9	black	1
Individual Parts:				
223950	Coupling part ZV/F (measure x = 8.3mm handle, top)	21	silver	1
171726	Alu cover profile ZV/f	22	silver	1
171729	Alu cover profile ZV/f	22	white	1
171732	Alu cover profile ZV/f	22	black	1
176337	Rod guide	9	silver	1

Primat FL 190 - Flexible Transmission



Fitting parts

- ⑩ Sleeve 8/8
- ③④ Flexible rod
- ③⑤ Guide
- ③⑦ Holder
- ③⑧ Lock washer
- ⑤① Plugging plate, lever
- ⑤② Plugging plate, clamping guide



Range of application

For single and double stay systems

Minimum sash height = 300 mm

* acc. application range PRIMAT-FL 190

measure v up to 400 mm Δ Rods 700 mm

measure v up to 700 mm Δ Rods 1000 mm

measure v up to 950 mm Δ Rods 1250 mm

measure v up to 1300 mm Δ Rods 1700 mm

measure v up to 1700 mm Δ Rods 2000 mm

Glass weights of up to 30 kg/m²

(Weight for thickness of 1 mm ~ 2.5 kg/m²)

Does not apply unless the distance between the sash's gravity centre and the centre of rotation is ≤ 60 mm.

Measure v = depth of the reveal (window sill depth),
above 200 mm with guide, up to 200 mm
without guide

Measure MU = upper edge of the window sill to lower edge
of the lever at least 455 mm

Measure ü = sill depth max. 40 mm

Measure L* = upper edge of the sash to upper edge of the
window sill at least 405 mm

Primat FL 190 - Flexible Transmission - continued

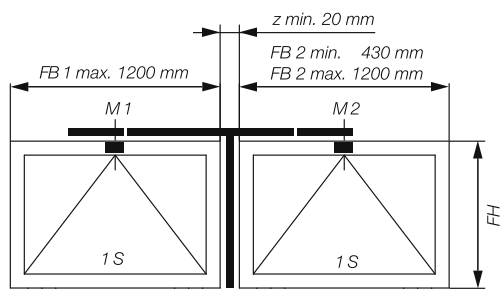
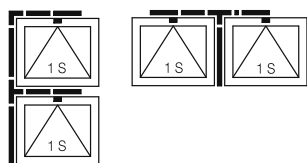
Product code	Description	Reference	Length (mm)	Colour	Packaging unit
175344	Bag with flexible rod with accessories	34, 37, 36	400	silver	1
175347	Bag with flexible rod with accessories	34, 37, 36	400	white	1
175350	Bag with flexible rod with accessories	34, 37, 36	400	black	1
175353	Bag with flexible rod with accessories	34, 37, 36	700	silver	1
175356	Bag with flexible rod with accessories	34, 37, 36	700	white	1
175359	Bag with flexible rod with accessories	34, 37, 36	700	black	1
108308	Bag of accessories for flexible transmission (supplementing flexible rod)	16, 50, 37, 51, 52	-	silver	1
108302	Bag of accessories for flexible transmission (supplementing flexible rod)	16, 50, 37, 51, 52	-	white	1
108305	Bag of accessories for flexible transmission (supplementing flexible rod)	16, 50, 37, 51, 52	-	black	1
190864	Bag of accessories for flexible transmission without plugging plate (supplementing flexible rod)	16, 50, 37	-	silver	1
190867	Bag of accessories for flexible transmission without plugging plate (supplementing flexible rod)	16, 50, 37	-	white	1
190870	Bag of accessories for flexible transmission without plugging plate (supplementing flexible rod)	16, 50, 37	-	black	1

PRIMAT-FL 190

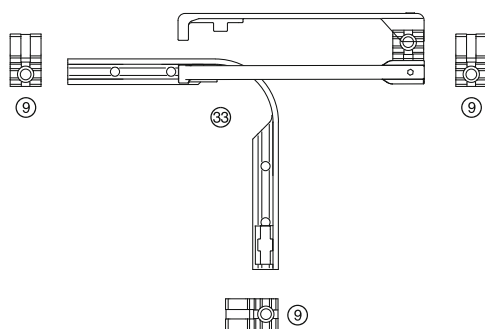
Requires the following additional fitting parts:

1. Additional carton PRIMAT-FL 190
2. Alu lever
3. Corner
4. Rod 8mm diameter
5. Alu cover profile

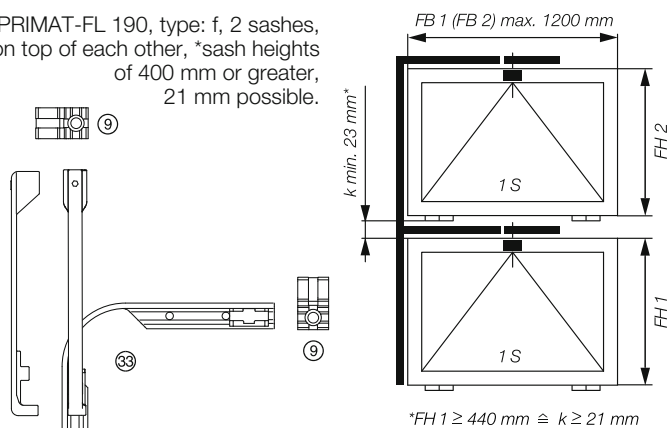
Primat FL 190 - Corner for Double Sash Window



PRIMAT-FL 190, type: hm, 2 sashes, side-by-side



PRIMAT-FL 190, type: f, 2 sashes,
on top of each other, *sash heights
of 400 mm or greater,
21 mm possible.



Side and front view
Lever position on the left (right laterally reversed)

Fitting parts

- 33 Corner for double-sash windows
- 9 Rod guide

Product code	Description	Reference	Packaging unit
228118	Bag with corner for double sash windows	9, 33	1

Note: Same use for all colour variations possible.

Requires the following additional fitting parts:

- 2x additional carton PRIMAT-FL 190
- Alu lever
- Rod 8mm diameter
- Alu cover profile