

Technical documentation for production
of external roller shutters in top-mounted system:
SKT OPOTERM



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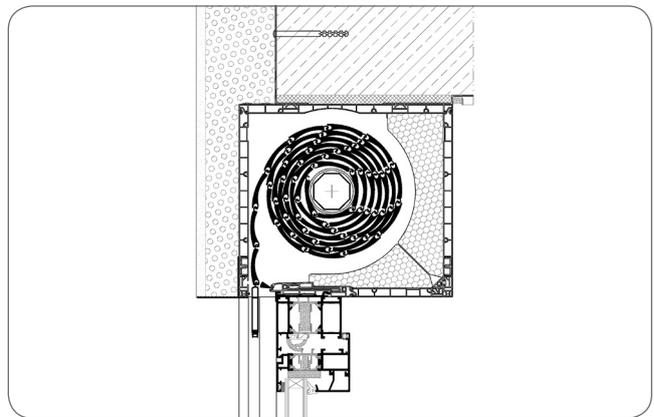
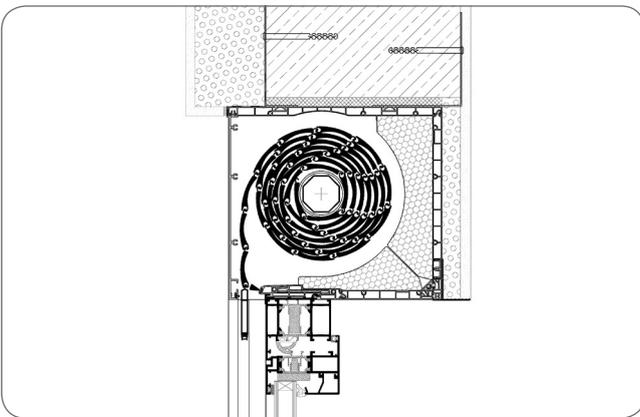
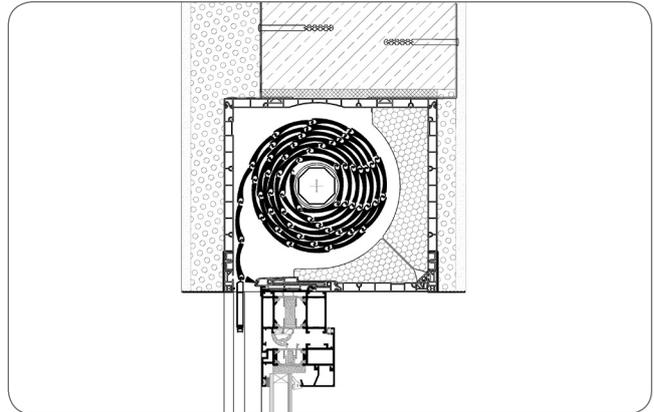
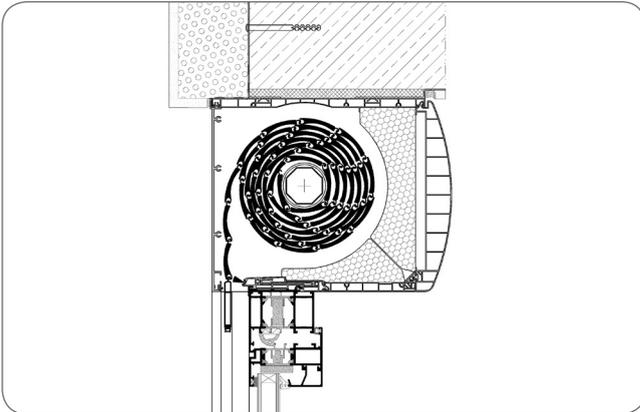
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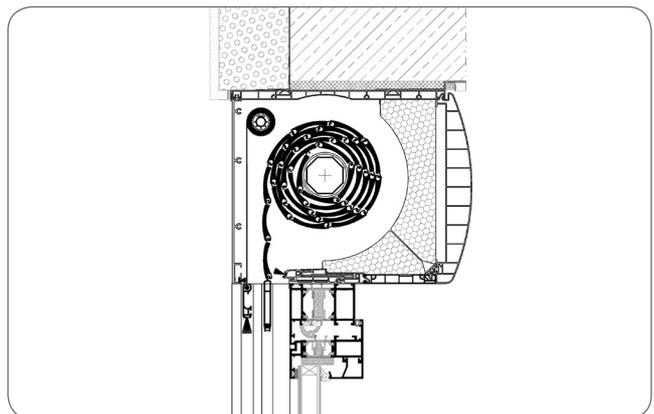
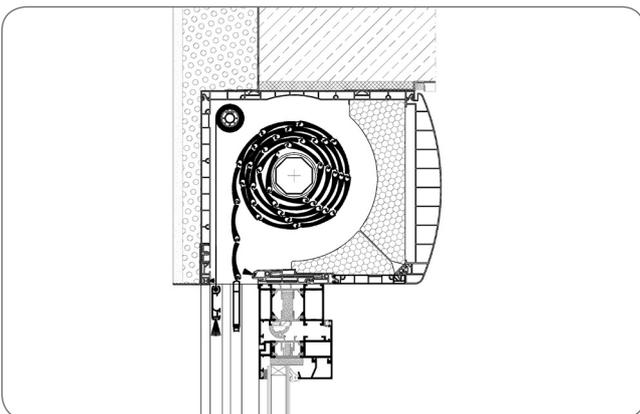
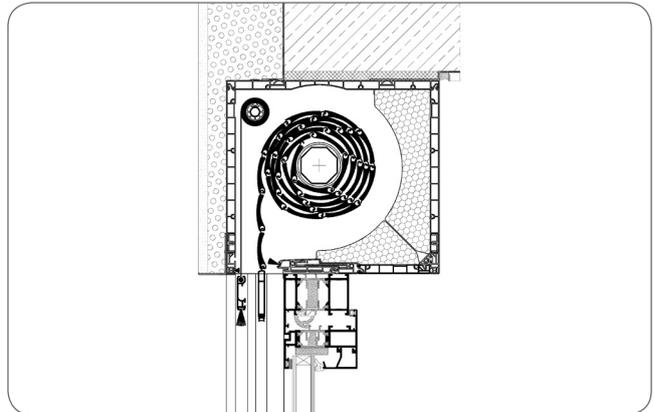
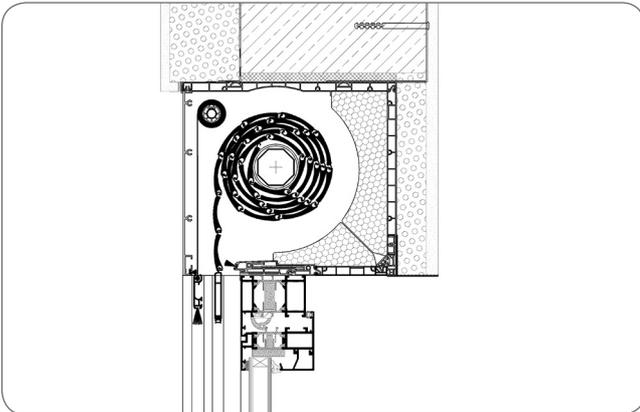
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1. EXAMPLES OF INSTALLATION

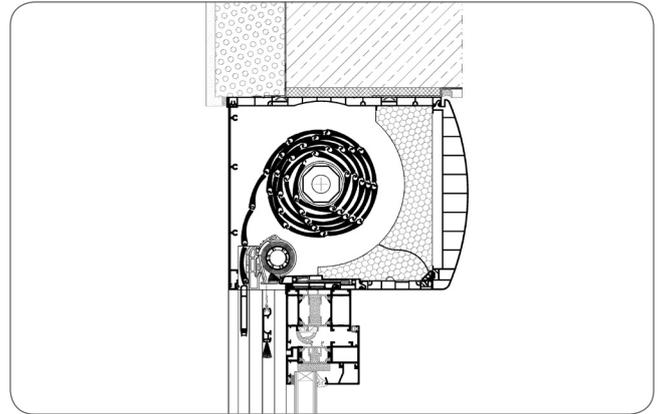
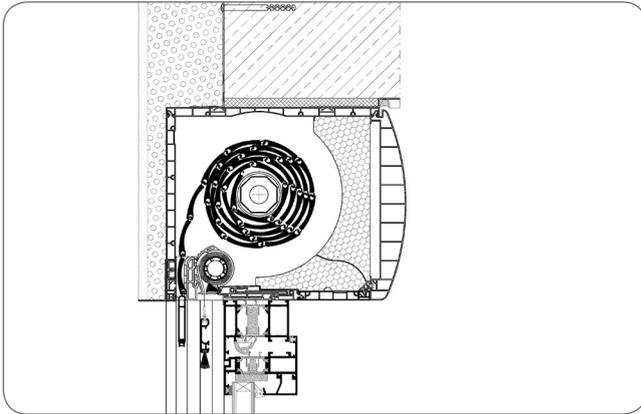
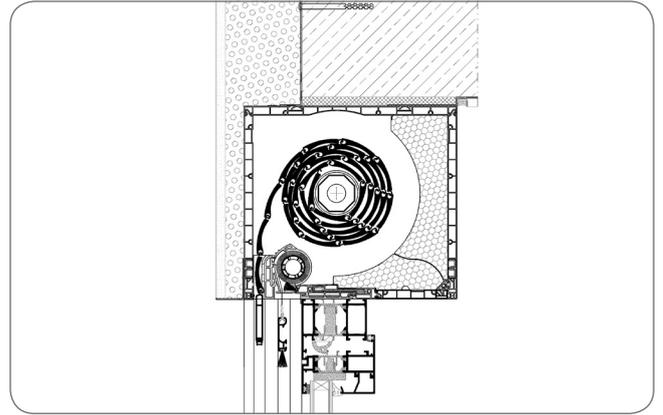
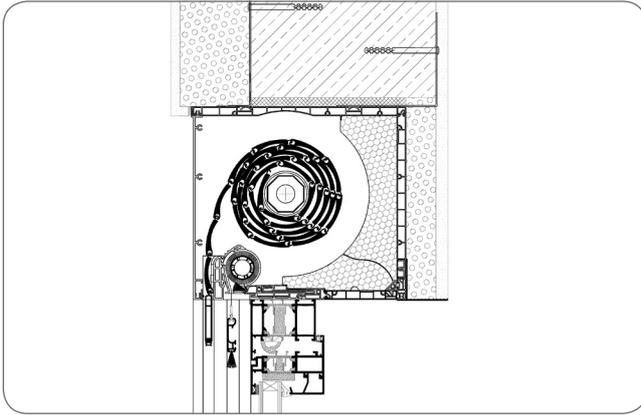
SKT



SKT + MKT



SKT Nova



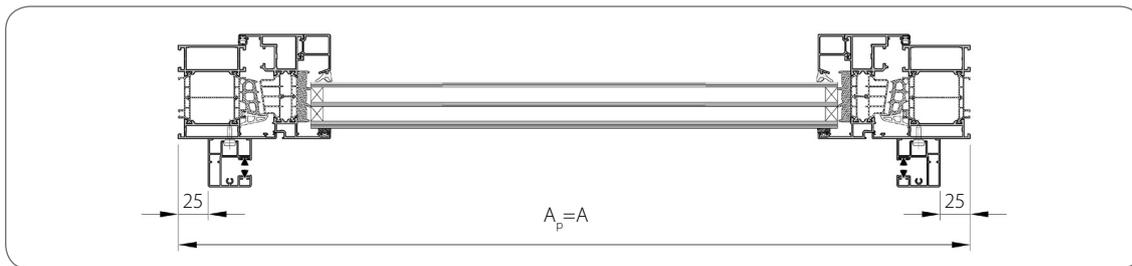
2. DIMENSIONING

- 1. Roller shutters in top-mounted system SKT Opoterm are installed with window.
- 2. Dimensions of an external roller shutter in top-mounted system are determined according to dimensions of window.
- 3. Where:

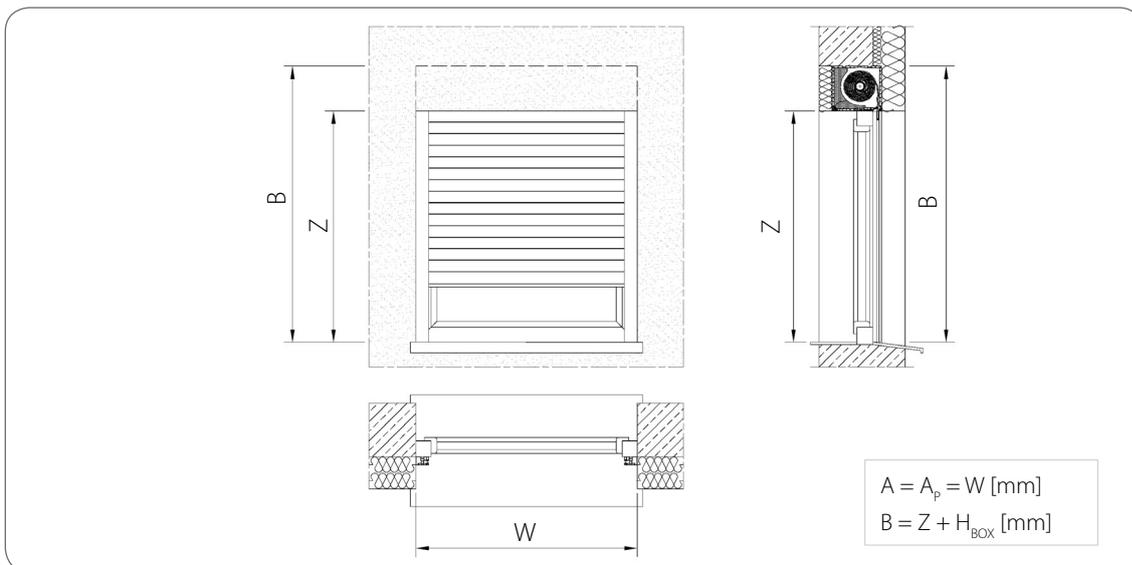
- W - WIDTH OF WINDOW [mm]
- Z - HEIGHT OF WINDOW [mm]
- A - WIDTH OF ROLLER SHUTTER / SET OF ROLLER SHUTTERS [mm]
- B - HEIGHT OF ROLLER SHUTTER [mm]
- V_1, V_2 - EXTENSIONS OF THE ROLLER SHUTTER BOX [mm]
- A_p - GUIDE CHANNELS SPACING [mm]

TYPE OF BOX	H_{BOX} [mm]
SKT230/170 SKT230/170 + MKT SKT230/170 NOVA	170
SKT230/210 SKT230/210 + MKT SKT230/210 NOVA	210
SKT255/240 SKT255/240 + MKT SKT255/240 NOVA	240

Ap spacing for PPA35/12 and PPA35/17 guide channels must be taken as A.

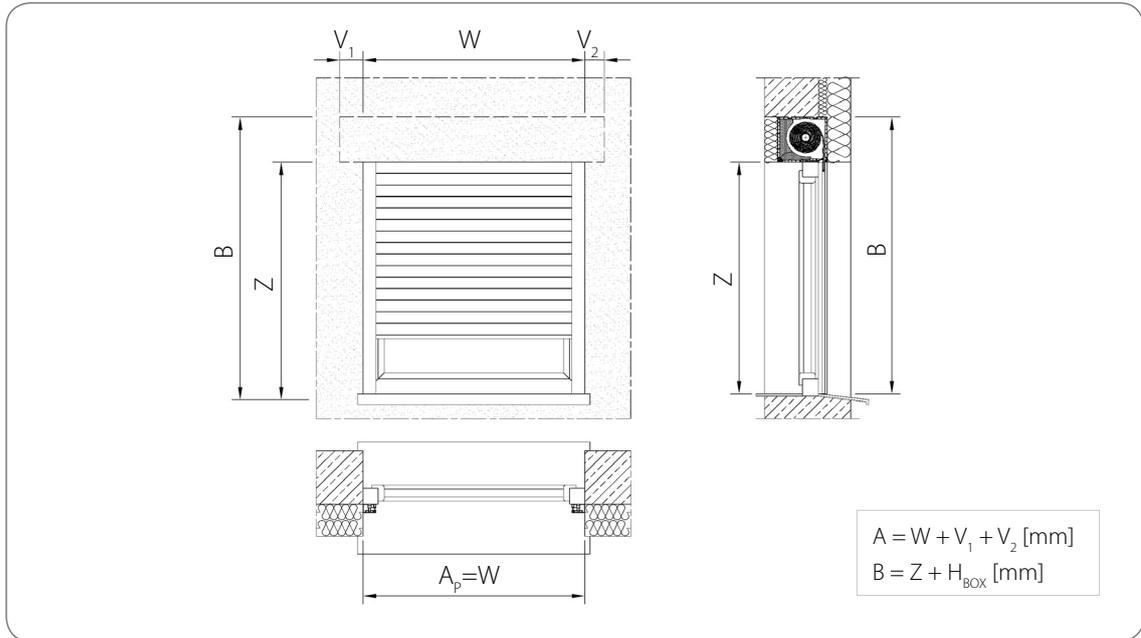


a) Single roller shutter

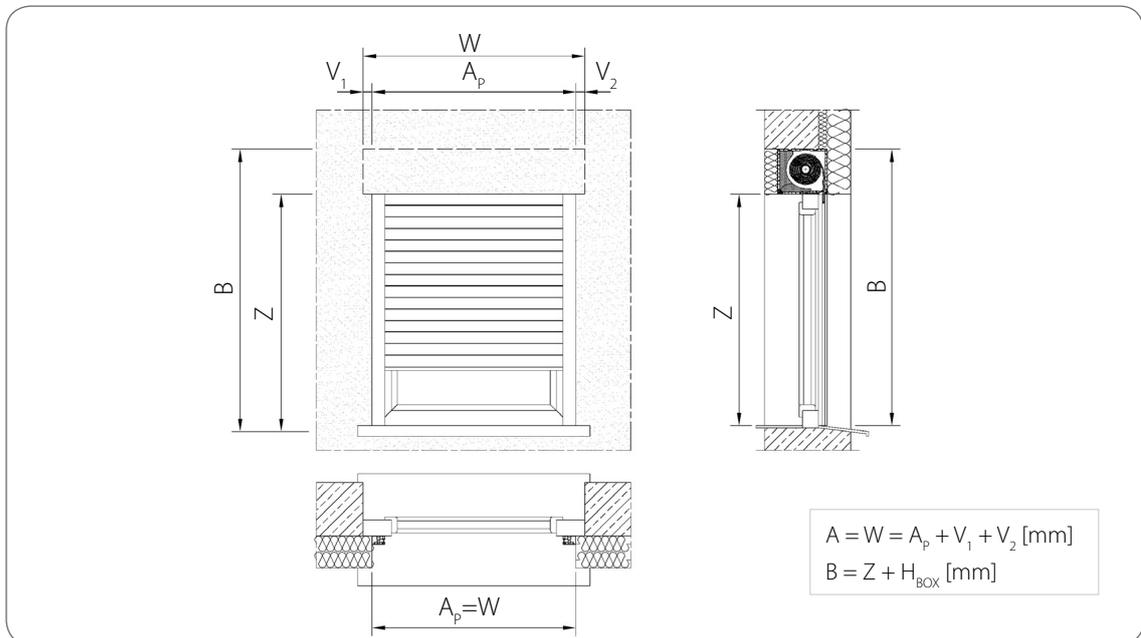


System	Guide channels
SKT	PP60/12, PP60/17, PPD60/12, PPD60/17, PPA35/12, PPA35/17, PPDA60/12, PPDA60/17
SKT + MKT	PPM60/12, PPM60/17, PPDM60/12, PPDM60/17, PPAM35/12, PPAM35/17
SKT NOVA	PPDMW60/12, PPDMW60/17, PPDAMW60/12, PPMO60/12, PPMO60/17

b) Single roller shutter with extension

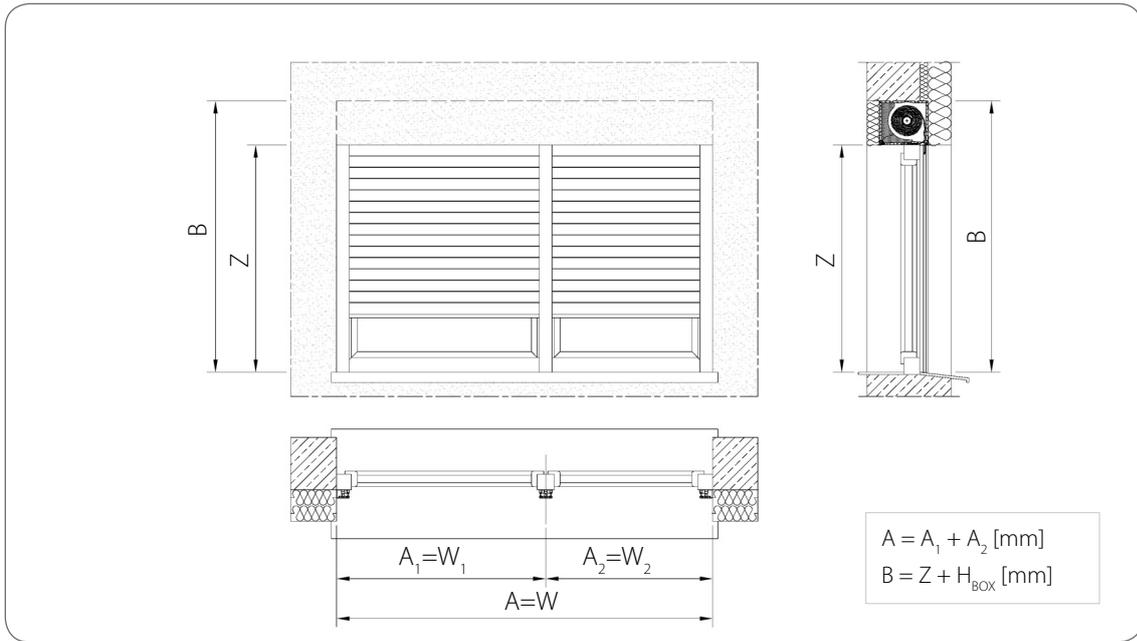


System	Guide channels
SKT	PP60/12, PP60/17, PPD60/12, PPD60/17, PPA35/12, PPA35/17, PPDA60/12, PPDA60/17
SKT NOVA	PPDMW60/12, PPDMW60/17, PPDAMW60/12, PPMO60/12, PPMO60/17



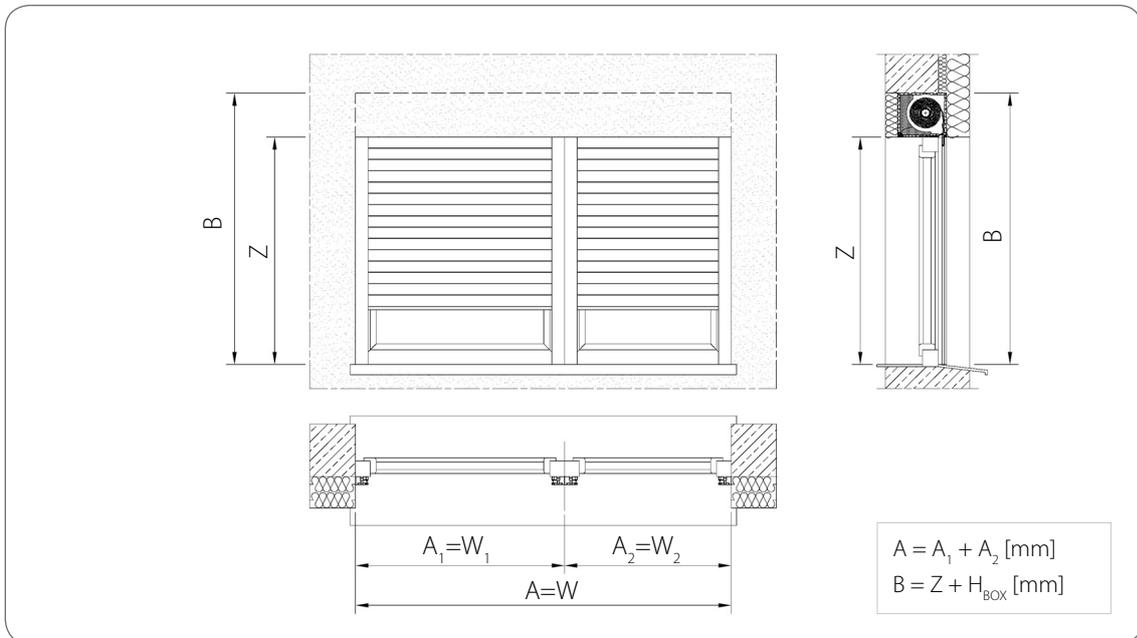
System	Guide channels:
SKT	PP60/12, PP60/17, PPD60/12, PPD60/17, PPA35/12, PPA35/17, PPDA60/12, PPDA60/17
SKT NOVA	PPDMW60/12, PPDMW60/17, PPDAMW60/12, PPMO60/12, PPMO60/17

c) Roller shutter set of two the same height with division walls.



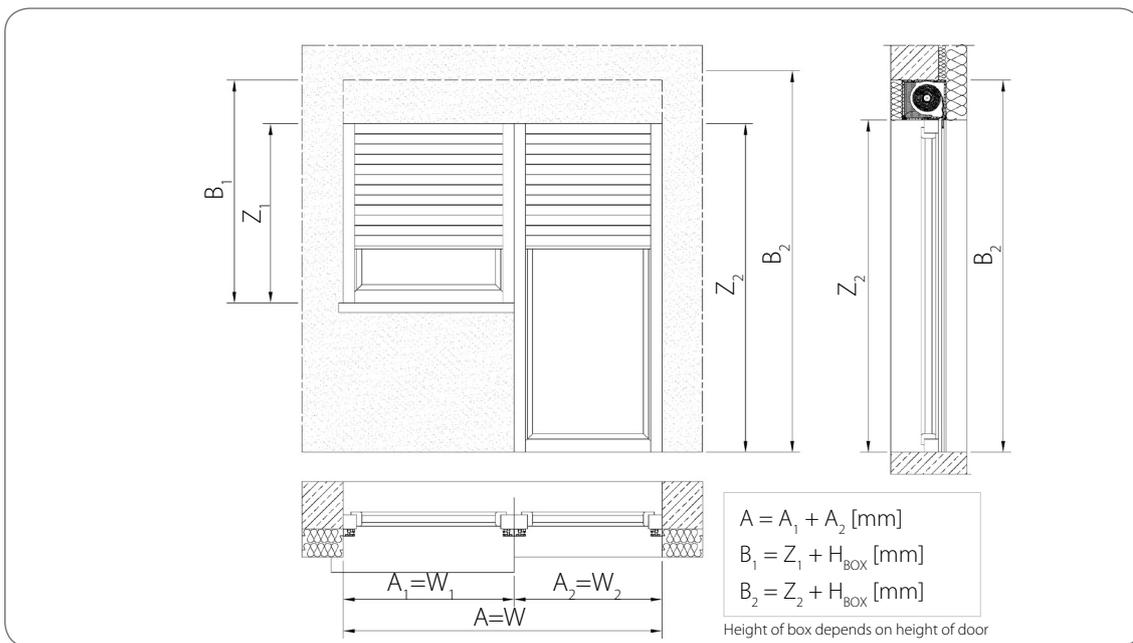
System	Guide channels
SKT	PP60/12, PP60/17, PPD60/12, PPD60/17, PPD-P60/12, PPD-P60/17, PPA35/12, PPA35/17, PPDA60/12, PPDA60/17, PPDA-P60/12, PPDA-P60/17
SKT + MKT	PPM60/12, PPM60/17, PPDM60/12, PPDM60/17, PPDM-P60/12, PPDM-P60/17, PPAM35/12, PPAM35/17
SKT NOVA	PPDMW60/12, PPDMW60/17, PPDAMW60/12, PPDAMW-P60/12, PPDMW-P60/12, PPDMW-P60/17, PPMO60/12, PPMO60/17

d) Roller shutter set of two the same height with compound internal end caps or division walls.



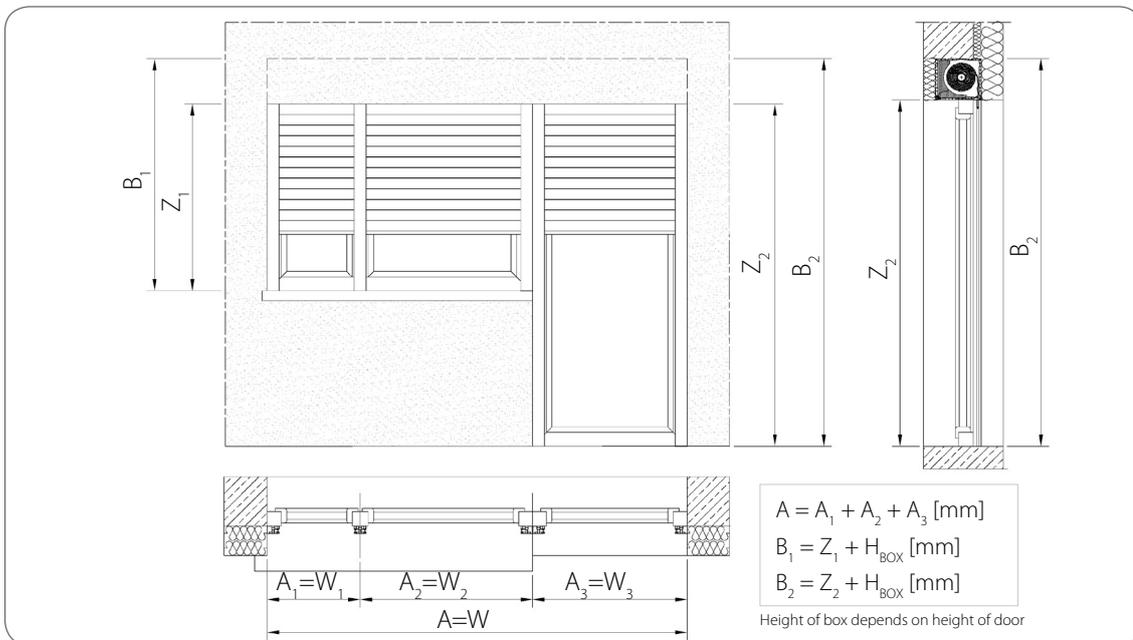
System	Guide channels
SKT	PP60/12, PP60/17, PPD60/12, PPD60/17, PPA35/12, PPA35/17, PPDA60/12, PPDA60/17
SKT + MKT	PPM60/12, PPM60/17, PPDM60/12, PPDM60/17, PPAM35/12, PPAM35/17
SKT NOVA	PPDMW60/12, PPDMW60/17, PPDAMW60/12, PPMO60/12, PPMO60/17

e) Roller shutter set window-door (in one shutter box) with compound internal end caps or division wall.



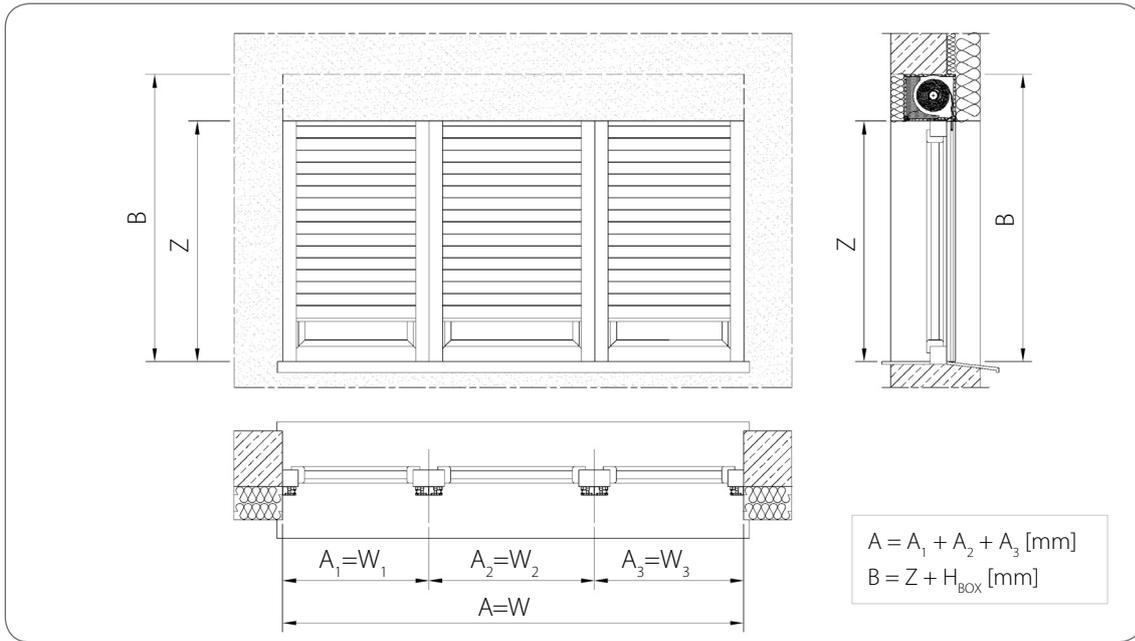
System	Guide channels
SKT	PP60/12, PP60/17, PPD60/12, PPD60/17, PPA35/12, PPA35/17, PPDA60/12, PPDA60/17
SKT + MKT	PPM60/12, PPM60/17, PPDM60/12, PPDM60/17, PPAM35/12, PPAM35/17
SKT NOVA	PPDMW60/12, PPDMW60/17, PPDAMW60/12, PPMO60/12, PPMO60/17

f) Roller shutter set of the same height with division wall and door with common drive.



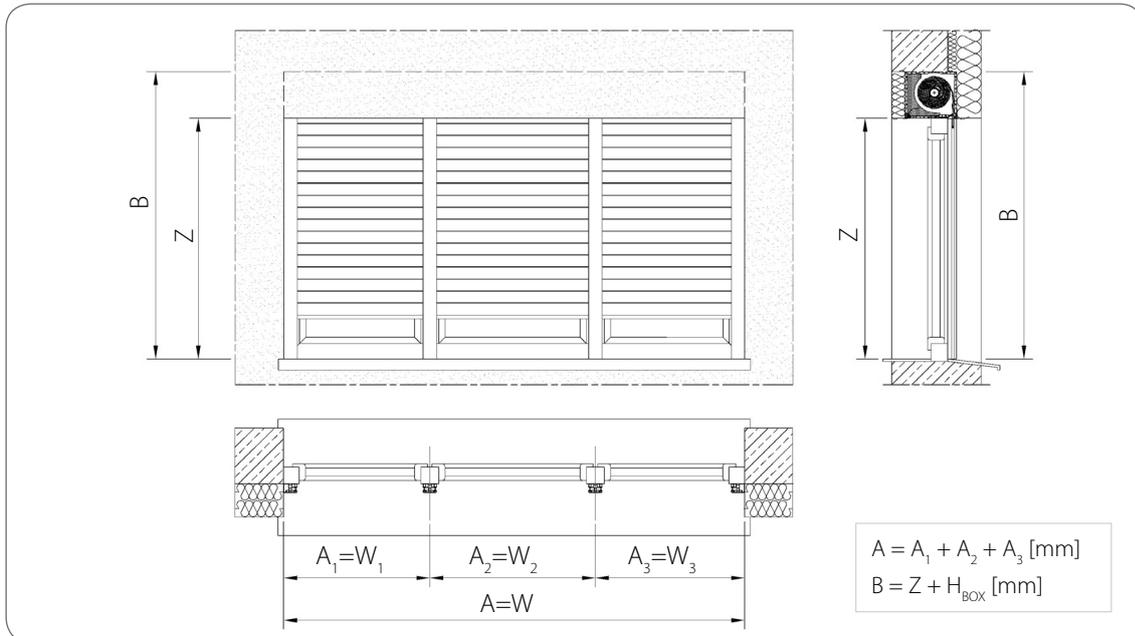
System	Guide channels
SKT	PP60/12, PP60/17, PPD60/12, PPD60/17, PPD-P60/12, PPD-P60/17, PPA35/12, PPA35/17, PPDA60/12, PPDA60/17, PPDA-P60/12, PPDA-P60/17
SKT + MKT	PPM60/12, PPM60/17, PPDM60/12, PPDM60/17, PPDM-P60/12, PPDM-P60/17, PPAM35/12, PPAM35/17
SKT NOVA	PPDMW60/12, PPDMW60/17, PPDAMW60/12, PPDAW-P60/12, PPDMW-P60/12, PPDMW-P60/17, PPMO60/12, PPMO60/17

g) Roller shutter set of the same height with compound internal end caps.



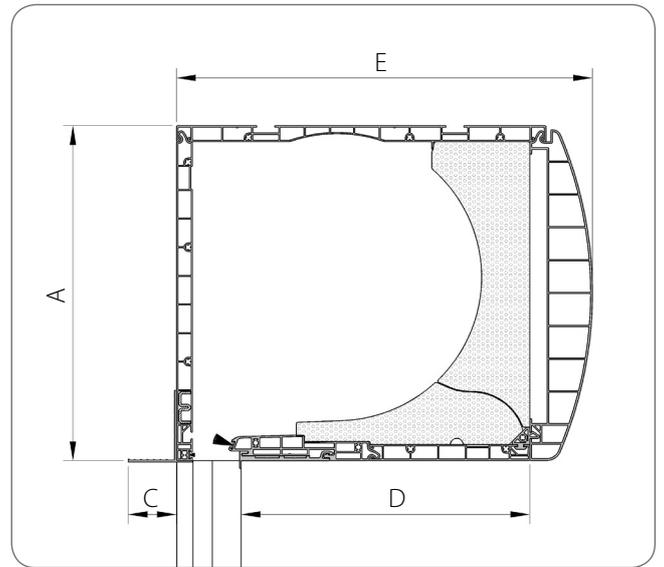
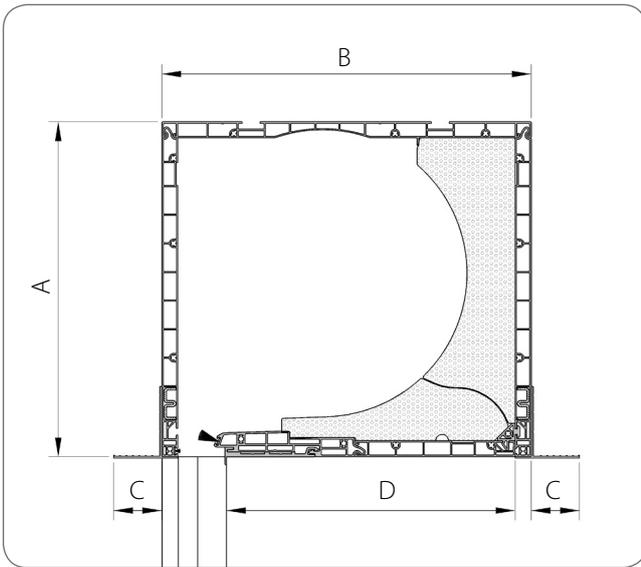
System	Guide channels
SKT	PP60/12, PP60/17, PPD60/12, PPD60/17, PPA35/12, PPA35/17, PPDA60/12, PPDA60/17
SKT + MKT	PPM60/12, PPM60/17, PPDM60/12, PPDM60/17, PPAM35/12, PPAM35/17
SKT NOVA	PPDMW60/12, PPDMW60/17, PPDAMW60/12, PPMO60/12, PPMO60/17

h) Roller shutter set of the same height with division walls and common drive.



System	Guide channels
SKT	PP60/12, PP60/17, PPD60/12, PPD60/17, PPD-P60/12, PPD-P60/17, PPA35/12, PPA35/17, PPDA60/12, PPDA60/17, PPDA-P60/12, PPDA-P60/17
SKT + MKT	PPM60/12, PPM60/17, PPDM60/12, PPDM60/17, PPD-M60/12, PPD-M60/17, PPAM35/12, PPAM35/17
SKT NOVA	PPDMW60/12, PPDMW60/17, PPDAMW60/12, PPDAMW-P60/12, PPDMW-P60/12, PPDMW-P60/17, PPMO60/12, PPMO60/17

3. THE SIZE OF THE BOXES



System	Box	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]
SKT	230/170	170	230	10, 30, 45, 105	180	256
	230/210	210				259
	255/240	240	255		205	286
SKT + MKT	230/170	170	230	10, 30, 45, 105	158	256
	230/210	210				259
	255/240	240	255		183	286
SKT NOVA	230/170	170	230	10, 30, 45, 105	158	256
	230/210	210				259
	255/240	240	255		183	286

4. WIND LOAD RESISTANCE CLASSIFICATION ACCORDING TO BS EN 13659:2015

In order to ensure the correct, failure-free and safe operation of roller shutters, it is necessary to classify the respective wind load resistance grades of individual profiles to the adequate wind load zones. Respective maps and tables have been provided for the easier classification of roller shutter profiles to the respective zones in United Kingdom.

Land classification:

- 0** - Sea, shore area open to the sea
- I** - Lake or regions with a negligible small vegetation and without obstacles
- II** - Areas with low vegetation such as grass and individual obstacles (trees, buildings) spaced at a distance of not less than 20 times their height
- III** - Areas regularly covered with vegetation or buildings or with isolated obstacles spaced at a distance of not less than 20 times their height (such as villages, suburban areas, permanent forests)
- IV** - Areas with at least 15 % area covered by buildings with an average height exceeding 15 m

Map of wind load zones in United Kingdom



Value of fundamental basic wind velocity before the altitude correction is applied (BS EN 1991-1-4:2005+A1:2010)	
Wind zone	V _{b,map} (m/s)
1	21,5
2	22
3	23
4	24
5	25
6	26
7	27
8	28
9	29
10	30
11	31

Classification of wind load resistance to wind load zones in United Kingdom

Criteria		Mounting heights of roller shutters on the building										
		to 9 m										
Land classification:	Requirements	Wind zone										
		1	2	3	4	5	6	7	8	9	10	11
IV	Wind load resistance classification	1	1	1	1	1	2	2	2	2	2	3
		2	2	2	2	2	3	3	3	3	3	4
		3	3	3	3	3	4	4	4	4	4	4
		4	4	4	4	4	4	4	4	4	4	5
		5	5	5	5	5	5	5	5	5	5	5

Criteria		Mounting heights of roller shutters on the building										
		from 9 to 18 m										
Land classification:	Requirements	Wind zone										
		1	2	3	4	5	6	7	8	9	10	11
IV	Wind load resistance classification	1	1	2	2	2	2	3	3	3	3	3
III		2	2	3	3	3	3	4	4	4	4	4
II		3	3	3	4	4	4	4	4	4	4	5
I		3	3	4	4	4	4	4	4	5	5	5
0		4	4	4	4	4	4	4	5	5	5	5

Criteria		Mounting heights of roller shutters on the building										
		from 18 to 28 m										
Land classification:	Requirements	Wind zone										
		1	2	3	4	5	6	7	8	9	10	11
IV	Wind load resistance classification	2	2	2	3	3	3	3	3	4	4	4
III		3	3	3	3	3	4	4	4	4	4	4
II		3	3	4	4	4	4	4	4	4	5	5
I		4	4	4	4	4	4	4	5	5	5	5
0		4	4	4	4	4	4	5	5	5	5	5

Criteria		Mounting heights of roller shutters on the building										
		from 28 to 50 m										
Land classification:	Requirements	Wind zone										
		1	2	3	4	5	6	7	8	9	10	11
IV	Wind load resistance classification	3	3	3	3	3	4	4	4	4	4	4
III		3	3	4	4	4	4	4	4	4	5	5
II		4	4	4	4	4	4	4	5	5	5	5
I		4	4	4	4	4	4	5	5	5	5	5
0		4	4	4	4	4	5	5	5	5	5	5

Criteria		Mounting heights of roller shutters on the building										
		from 50 to 100 m										
Land classification:	Requirements	Wind zone										
		1	2	3	4	5	6	7	8	9	10	11
IV	Wind load resistance classification	3	3	4	4	4	4	4	4	4	5	5
III		4	4	4	4	4	4	4	5	5	5	5
II		4	4	4	4	4	5	5	5	5	5	5
I		4	4	4	4	5	5	5	5	5	5	6
0		4	4	4	4	5	5	5	5	5	5	6

The data given in the table refer to the areas located at an altitude of up to 300 m above sea level and the installation of venetian blinds at a height of up to 100 m. Other cases should be considered individually.

Wind load resistance classification

Class	0	1	2	3	4	5	6
Nominal test pressure p (N/m ²)	< 50	50	70	100	170	270	400
Safe test pressure 1,5 p (N/m ²)	< 75	75	100	150	250	400	600

Taking into account the wind load zone and selected land classification category, we can read the class of resistance of roller shutter profiles to wind load. After reading the resistance class, we can select the right profile and drive using the wind load resistance class tables according to PN-EN 1991-1-4:2008.

5. MAXIMUM DIMENSIONS

5.1. The maximum width and height of the roller shutter and wind load resistance classification.

 In case of **PPMO60/12** and **PPMO60/17** guide channels maximum height should be taken as for SKT roller shutter without insect screen.

PT 37									
Wind load resistance classification acc. to EN 13659	Max. width of roller shutter including guide channels [mm]								
	SKT			SKT + MKT			SKT NOVA		
	PPD60/12, PPD-P60/12, PPDA60/12, PPDA-P60/12, PPA35/12, PP60/12			PPDM60/12, PPDM-P60/12, PPAM35/12, PPM60/12			PPDMW60/12, PPDMW-P60/12, PPMO60/12, PPDMW60/12, PPDMW-P60/12		
1	≤ 1600			≤ 1600			≤ 1600		
2	≤ 1400			≤ 1400			≤ 1400		
3	≤ 1300			≤ 1300			≤ 1300		
4	≤ 1000			≤ 1000			≤ 1000		
5	-			-			-		
6	-			-			-		
Maximum height of the roller shutter with box [mm]									
	SKT			SKT + MKT			SKT NOVA		
	230/170 (OC/A)	230/210 (OC/A)	255/240 (OC/A)	230/170 (OCM/A)	230/210 (OCM/A)	255/240 (OCM/A)	230/170 (OCM/A)	230/210 (OCM/A)	255/240 (OCM/A)
	230/210 (OC+)	255/240 (OC+)							
SW 40	2090	3520	5000	1610	2500	2500	1420	2600	2600
SW 40 + PZ/45	1870	3630	4750	1690	2500	2500	1530	2600	2600
SW 40 + PW/40	-	-	-	-	-	-	-	-	-
SW 50	1910	3220	4380	1460	2190	2500	1270	2360	2600
SW 50 + PZ/56	1990	3370	4460	1600	2190	2500	1270	2360	2600
SW 60	1910	3370	4530	1500	2300	2500	1310	2440	2600
SW 60 + PZ/68	1500	3260	4380	1320	2190	2500	1080	2030	2600
SW 60 + PW/60	-	-	-	-	-	-	-	-	-

PT 52									
Wind load resistance classification acc. to EN 13659	Max. width of roller shutter including guide channels [mm]								
	SKT			SKT + MKT			SKT NOVA		
	PPD60/17, PPD-P60/17, PPDA60/17, PPDA-P60/17, PPA35/17, PP60/17			PPDM60/17, PPDM-P60/17, PPAM35/17, PPM60/17			PPDMW60/17, PPDMW-P60/17		PPMO60/17
1	≤ 2300			≤ 2000			≤ 2000		≤ 2300
2	≤ 2100			≤ 2000			≤ 2000		≤ 2100
3	≤ 1800			≤ 1800			≤ 1800		≤ 1800
4	≤ 1700			≤ 1500			≤ 1500		≤ 1700
5	-			-			-		-
6	-			-			-		-
Maximum height of the roller shutter with box [mm]									
	SKT			SKT + MKT			SKT NOVA		
	230/170 (OC/A)	230/210 (OC/A)	255/240 (OC/A)	230/170 (OCM/A)	230/210 (OCM/A)	255/240 (OCM/A)	230/170 (OCM/A)	230/210 (OCM/A)	255/240 (OCM/A)
	230/210 (OC+)	255/240 (OC+)							
SW 60	1380	1760	2660	960	1710	2500	810	1610	2600
SW 60 + PZ/68	1170	1820	2450	760	1500	2450	550	1610	2600
SW 60 + PW/60	-	-	-	-	-	-	-	-	-

PA 37

PA 37									
Wind load resistance classification acc. to EN 13659	Max. width of roller shutter including guide channels [mm]								
	SKT			SKT + MKT			SKT NOVA		
	PPD60/12, PPD-P60/12, PPDA60/12, PPDA-P60/12, PPA35/12, PP60/12			PPDM60/12, PPDM-P60/12, PPAM35/12, PPM60/12			PPDMW60/12, PPDAMW60/12, PPDAMW-P60/12		PPMO60/12
1	≤ 3000			≤ 2000			≤ 2000		≤ 3000
2	≤ 2700			≤ 2000			≤ 2000		≤ 2700
3	≤ 2500			≤ 2000			≤ 2000		≤ 2500
4	≤ 2000			≤ 2000			≤ 2000		≤ 2000
5	-			-			-		-
6	-			-			-		-
Maximum height of the roller shutter with box [mm]									
	SKT			SKT + MKT			SKT NOVA		
	230/170 (OC/A)	230/210 (OC/A)	255/240 (OC/A)	230/170 (OCM/A)	230/210 (OCM/A)	255/240 (OCM/A)	230/170 (OCM/A)	230/210 (OCM/A)	255/240 (OCM/A)
	230/210 (OC+)	255/240 (OC+)							
SW 40	1760	3190	4720	1540	2410	2500	1490	2290	2600
SW 40 + PZ/45	1650	3300	4570	1430	2190	2500	1310	2470	2600
SW 40 + PW/40	1160	2430	4230	-	-	-	830	1550	2600
SW 50	1350	3000	4160	1170	1890	2500	970	2100	2600
SW 50 + PZ/56	1730	3120	4280	1470	2260	2500	1270	2140	2600
SW 60	1570	3070	4680	1200	1960	2500	1200	2250	2600
SW 60 + PZ/68	1320	2850	4460	1060	1820	2500	900	2030	2600
SW 60 + PW/60	940	2350	3860	-	-	-	600	1710	2600

PA 39

PA 39									
Wind load resistance classification acc. to EN 13659	Max. width of roller shutter including guide channels [mm]								
	SKT			SKT + MKT			SKT NOVA		
	PPD60/12, PPD-P60/12, PPDA60/12, PPDA-P60/12, PPA35/12, PP60/12			PPDM60/12, PPDM-P60/12, PPAM35/12, PPM60/12			PPDMW60/12, PPDAMW60/12, PPDAMW-P60/12		PPMO60/12
1	≤ 3300			≤ 2000			≤ 2000		≤ 3300
2	≤ 3000			≤ 2000			≤ 2000		≤ 3000
3	≤ 2600			≤ 2000			≤ 2000		≤ 2600
4	≤ 2200			≤ 2000			≤ 2000		≤ 2200
5	-			-			-		-
6	-			-			-		-
Maximum height of the roller shutter with box [mm]									
	SKT			SKT + MKT			SKT NOVA		
	230/170 (OC/A)	230/210 (OC/A)	255/240 (OC/A)	230/170 (OCM/A)	230/210 (OCM/A)	255/240 (OCM/A)	230/170 (OCM/A)	230/210 (OCM/A)	255/240 (OCM/A)
	230/210 (OC+)	255/240 (OC+)							
SW 40	1890	3230	4460	1600	2490	2500	1490	2450	2600
SW 40 + PZ/45	1690	3310	4770	1460	2220	2500	1550	2410	2600
SW 40 + PW/40	1220	2860	3940	-	-	-	870	1900	2600
SW 50	1730	3190	4300	1540	2300	2500	1330	2450	2600
SW 50 + PZ/56	1770	3160	4300	1500	2340	2500	1330	2450	2600
SW 60	1730	3270	4460	1220	1980	2500	1100	2170	2600
SW 60 + PZ/68	1570	3040	4420	1260	1870	2500	1140	2020	2600
SW 60 + PW/60	980	2310	4020	-	-	-	630	1350	2600

PA 40										
Wind load resistance classification acc. to EN 13659	Max. width of roller shutter including guide channels [mm]									
	SKT			SKT + MKT			SKT NOVA			
	PPD60/12, PPD-P60/12, PPDA60/12, PPDA-P60/12, PPA35/12, PP60/12			PPDM60/12, PPDM-P60/12, PPAM35/12, PPM60/12			PPDMW60/12, PPDMW-P60/12, PPDAMW60/12, PPDAMW-P60/12			
1	≤ 3600			≤ 2000			≤ 2000			≤ 3600
2	≤ 3300			≤ 2000			≤ 2000			≤ 3300
3	≤ 2700			≤ 2000			≤ 2000			≤ 2700
4	≤ 2300			≤ 2000			≤ 2000			≤ 2300
5	-			-			-			-
6	-			-			-			-
Maximum height of the roller shutter with box [mm]										
	SKT			SKT + MKT			SKT NOVA			
	230/170 (OC/A)	230/210 (OC/A)	255/240 (OC/A)	230/170 (OCM/A)	230/210 (OCM/A)	255/240 (OCM/A)	230/170 (OCM/A)	230/210 (OCM/A)	255/240 (OCM/A)	
	230/210 (OC+)	255/240 (OC+)								
SW 40	-	-	-	-	-	-	-	-	-	
SW 40 + PZ/45	1090	2310	3490	890	1600	2500	1010	1790	2600	
SW 40 + PW/40	930	2090	3200	-	-	-	530	1230	2560	
SW 50	1290	2430	3170	1090	1670	2500	770	1710	2600	
SW 50 + PZ/56	1220	2120	3120	1060	1600	2500	810	1630	2600	
SW 60	1130	2310	3170	890	1390	2500	810	1590	2600	
SW 60 + PZ/68	930	2110	3170	790	1470	2490	610	1430	2600	
SW 60 + PW/60	690	1890	3120	-	-	-	610	1270	2320	

PA 43										
Wind load resistance classification acc. to EN 13659	Max. width of roller shutter including guide channels [mm]									
	SKT			SKT + MKT			SKT NOVA			
	PPD60/12, PPD-P60/12, PPDA60/12, PPDA-P60/12, PPA35/12, PP60/12			PPDM60/12, PPDM-P60/12, PPAM35/12, PPM60/12			PPDMW60/12, PPDMW-P60/12, PPDAMW60/12, PPDAMW-P60/12			
1	≤ 3300			≤ 2000			≤ 2000			≤ 3300
2	≤ 3000			≤ 2000			≤ 2000			≤ 3000
3	≤ 2600			≤ 2000			≤ 2000			≤ 2600
4	≤ 2200			≤ 2000			≤ 2000			≤ 2200
5	-			-			-			-
6	-			-			-			-
Maximum height of the roller shutter with box [mm]										
	SKT			SKT + MKT			SKT NOVA			
	230/170 (OC/A)	230/210 (OC/A)	255/240 (OC/A)	230/170 (OCM/A)	230/210 (OCM/A)	255/240 (OCM/A)	230/170 (OCM/A)	230/210 (OCM/A)	255/240 (OCM/A)	
	230/210 (OC+)	255/240 (OC+)								
SW 40	-	-	-	-	-	-	-	-	-	
SW 40 + PZ/45	1720	3120	4680	1460	2300	2500	1290	2430	2600	
SW 40 + PW/40	1460	3000	4110	-	-	-	770	1910	2600	
SW 50	1770	3200	4680	1520	2340	2500	1250	2130	2600	
SW 50 + PZ/56	1770	3200	4340	1510	2390	2500	1070	2170	2600	
SW 60	1460	3250	4420	1290	2040	2500	1070	2210	2600	
SW 60 + PZ/68	1590	3080	4210	1250	1870	2500	900	2000	2600	
SW 60 + PW/60	1240	2440	3930	-	-	-	560	1310	2600	

PA 45									
Wind load resistance classification acc. to EN 13659	Max. width of roller shutter including guide channels [mm]								
	SKT			SKT + MKT			SKT NOVA		
	PPD60/12, PPD-P60/12, PPDA60/12, PPDA-P60/12, PPA35/12, PP60/12			PPDM60/12, PPDM-P60/12, PPAM35/12, PPM60/12			PPDMW60/12, PPDMMW-P60/12, PPDAMW60/12, PPDAMW-P60/12		PPMO60/12
1	≤ 3200			≤ 2000			≤ 2000		≤ 3200
2	≤ 2900			≤ 2000			≤ 2000		≤ 2900
3	≤ 2600			≤ 2000			≤ 2000		≤ 2600
4	≤ 2100			≤ 2000			≤ 2000		≤ 2100
5	-			-			-		-
6	-			-			-		-
Maximum height of the roller shutter with box [mm]									
	SKT			SKT + MKT			SKT NOVA		
	230/170 (OC/A)	230/210 (OC/A)	255/240 (OC/A)	230/170 (OCM/A)	230/210 (OCM/A)	255/240 (OCM/A)	230/170 (OCM/A)	230/210 (OCM/A)	255/240 (OCM/A)
	230/210 (OC+)	255/240 (OC+)							
SW 40	-	-	-	-	-	-	-	-	-
SW 40 + PZ/45	1120	2450	3450	940	1600	2500	1080	1730	2600
SW 40 + PW/40	1110	2190	3340	-	-	-	810	1860	2600
SW 50	1440	2400	3540	1260	1730	2500	810	1590	2600
SW 50 + PZ/56	1220	2590	3590	990	1600	2500	810	1590	2600
SW 60	1170	2580	3860	940	1680	2500	810	1590	2600
SW 60 + PZ/68	940	2130	3410	720	1500	2500	580	1370	2600
SW 60 + PW/60	980	2230	3340	-	-	-	580	1370	2600

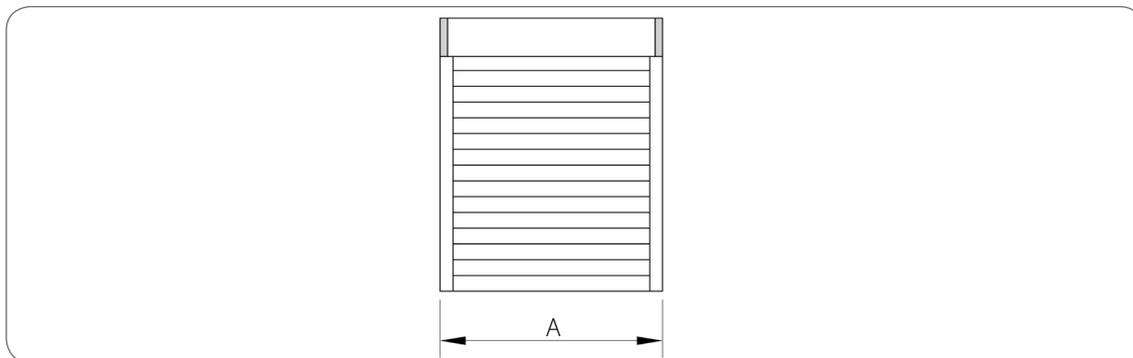
PA 52									
Wind load resistance classification acc. to EN 13659	Max. width of roller shutter including guide channels [mm]								
	SKT			SKT + MKT			SKT NOVA		
	PPD60/17, PPD-P60/17, PPDA60/17, PPDA-P60/17, PPA35/17, PP60/17			PPDM60/17, PPDM-P60/17, PPAM35/17, PPM60/17			PPDMW60/17, PPDMMW-P60/17		PPMO60/17
1	≤ 3800			≤ 2000			≤ 2000		≤ 3800
2	≤ 3500			≤ 2000			≤ 2000		≤ 3500
3	≤ 3100			≤ 2000			≤ 2000		≤ 3100
4	≤ 2700			≤ 2000			≤ 2000		≤ 2700
5	-			-			-		-
6	-			-			-		-
Maximum height of the roller shutter with box [mm]									
	SKT			SKT + MKT			SKT NOVA		
	230/170 (OC/A)	230/210 (OC/A)	255/240 (OC/A)	230/170 (OCM/A)	230/210 (OCM/A)	255/240 (OCM/A)	230/170 (OCM/A)	230/210 (OCM/A)	255/240 (OCM/A)
	230/210 (OC+)	255/240 (OC+)							
SW 60	1170	2280	3230	910	1450	2450	550	1610	2600
SW 60 + PZ/68	910	2020	2870	700	1450	2400	550	1300	2600
SW 60 + PW/60	950	1970	2940	-	-	-	550	1350	2360

PA 55									
Wind load resistance classification acc. to EN 13659	Max. width of roller shutter including guide channels [mm]								
	SKT			SKT + MKT			SKT NOVA		
	PPD60/17, PPD-P60/17, PPDA60/17, PPDA-P60/17, PPA35/17, PP60/17			PPDM60/17, PPDM-P60/17, PPAM35/17, PPM60/17			PPDMW60/17, PPDMMW-P60/17		PPMO60/17
1	≤ 4100			≤ 2000			≤ 2000		≤ 4100
2	≤ 3800			≤ 2000			≤ 2000		≤ 3800
3	≤ 3500			≤ 2000			≤ 2000		≤ 3500
4	≤ 2900			≤ 2000			≤ 2000		≤ 2900
5	-			-			-		-
6	-			-			-		-
Maximum height of the roller shutter with box [mm]									
	SKT			SKT + MKT			SKT NOVA		
	230/170 (OC/A)	230/210 (OC/A)	255/240 (OC/A)	230/170 (OCM/A)	230/210 (OCM/A)	255/240 (OCM/A)	230/170 (OCM/A)	230/210 (OCM/A)	255/240 (OCM/A)
	230/210 (OC+)	255/240 (OC+)							
SW 60	790	1580	2260	630	1030	1980	530	600	1880
SW 60 + PZ/68	630	1580	2370	410	1030	2200	580	990	1990
SW 60 + PW/60	-	1420	2270	-	-	-	360	990	1660

5.2. SKT box maximum width

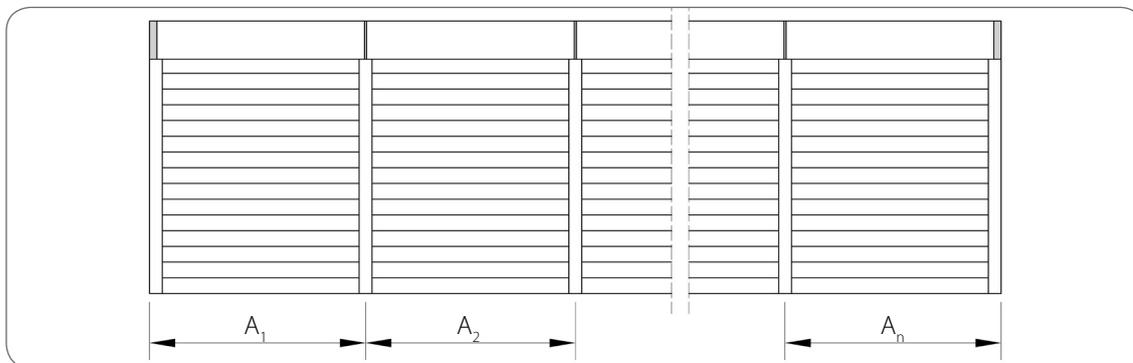
 If the box is built in from the outside, the maximum width should be taken as for white box.

a) Single roller shutter



System	Type	Width	
SKT	White color, use of PSBA or built-in from outside	with WSB, WSD reinforcement and PAC	A ≤ 3300 [mm]
		with WSB and WSD steel reinforcement	A ≤ 2500 [mm]
	others colours	without WSB and WSD reinforcement	A ≤ 2000 [mm]
		with WSB and WSD steel reinforcement	A ≤ 2000 [mm]
SKT + MKT SKT Nova	White color, use of PSBA or built-in from outside	with WSB and WSD steel reinforcement	A ≤ 2000 [mm]
		without WSB and WSD reinforcement	A ≤ 2000 [mm]
	others colours	with WSB and WSD steel reinforcement	A ≤ 2000 [mm]
		without WSB and WSD reinforcement	A ≤ 1600 [mm]

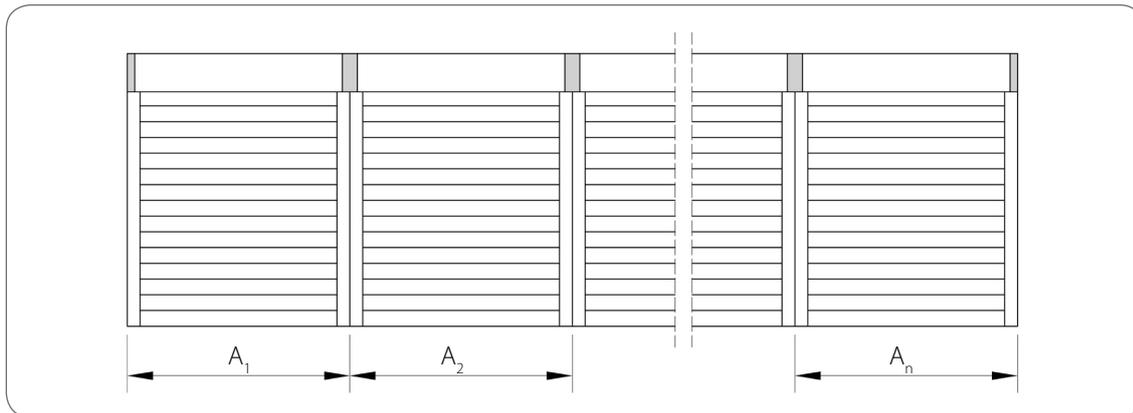
b) Roller shutter set with division walls



System	Type	Width	
SKT	White color, use of PSBA or built-in from outside	with WSB, WSD reinforcement and TSP	A₁, A₂ ≤ 2500 [mm] A₁+A₂ ≤ 5000 [mm]
		with WSB and WSD steel reinforcement	A₁, A₂, ... , A_n ≤ 2500 [mm] A₁+A₂+ ... +A_n ≤ 3200 [mm]
	others colours	with WSB and WSD steel reinforcement	A₁, A₂, ... , A_n ≤ 2000 [mm] A₁+A₂+ ... +A_n ≤ 2500 [mm]
		with WSB, WSD reinforcement and TSP	A₁, A₂ ≤ 2000 [mm] A₁+A₂ ≤ 4000 [mm]
SKT + MKT SKT Nova	White color, use of PSBA or built-in from outside	with WSB and WSD steel reinforcement	A₁, A₂, ... , A_n ≤ 2000 [mm] A₁+A₂+ ... +A_n ≤ 3200 [mm]
		with WSB and WSD steel reinforcement	A₁, A₂, ... , A_n ≤ 2000 [mm] A₁+A₂+ ... +A_n ≤ 2500 [mm]
	others colours	with WSB and WSD steel reinforcement	A₁, A₂, ... , A_n ≤ 2000 [mm] A₁+A₂+ ... +A_n ≤ 2500 [mm]
		with WSB and WSD steel reinforcement	A₁, A₂, ... , A_n ≤ 2000 [mm] A₁+A₂+ ... +A_n ≤ 2500 [mm]

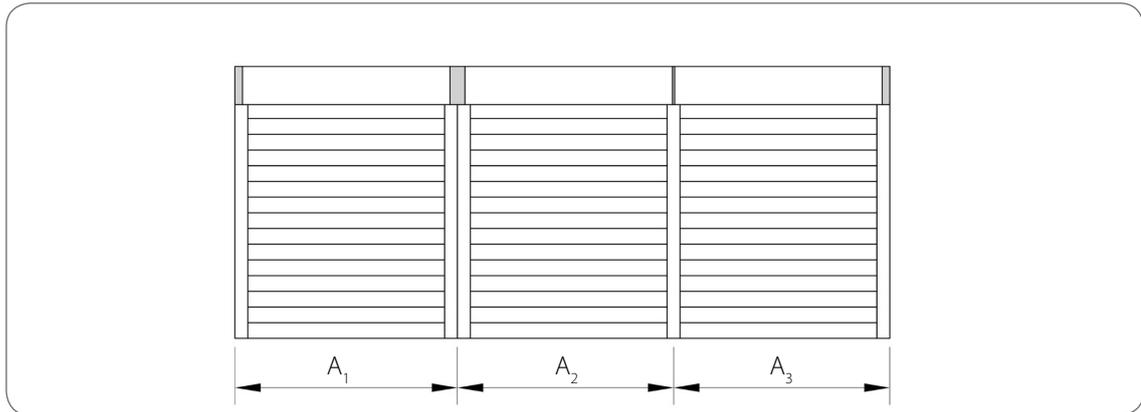
 If division walls are used in number of ≥ 2 [pcs.], intermediate roller shutters in the set can only be operated with a common drive.
 If TSP pins are used set can contain maximum of two roller shutters.

c) Roller shutter set with internal compound end caps.



System	Type	Width
SKT	White color, use of PSBA or built-in from outside	with WSB, WSD reinforcement and PAC $A_1, A_2, \dots, A_n \leq 3300$ [mm] $A_1 + A_2 + \dots + A_n \leq 6000$ [mm]
		with WSB and WSD steel reinforcement $A_1, A_2, \dots, A_n \leq 2500$ [mm] $A_1 + A_2 + \dots + A_n \leq 6000$ [mm]
		without WSB and WSD reinforcement $A_1, A_2, \dots, A_n \leq 2000$ [mm] $A_1 + A_2 + \dots + A_n \leq 6000$ [mm]
	others colours	with WSB and WSD steel reinforcement $A_1, A_2, \dots, A_n \leq 2000$ [mm] $A_1 + A_2 + \dots + A_n \leq 6000$ [mm]
		without WSB and WSD reinforcement $A_1, A_2, \dots, A_n \leq 1600$ [mm] $A_1 + A_2 + \dots + A_n \leq 6000$ [mm]
SKT + MKT SKT Nova	White color, use of PSBA or built-in from outside	with WSB and WSD steel reinforcement $A_1, A_2, \dots, A_n \leq 2000$ [mm] $A_1 + A_2 + \dots + A_n \leq 6000$ [mm]
		without WSB and WSD reinforcement $A_1, A_2, \dots, A_n \leq 2000$ [mm] $A_1 + A_2 + \dots + A_n \leq 6000$ [mm]
	others colours	with WSB and WSD steel reinforcement $A_1, A_2, \dots, A_n \leq 2000$ [mm] $A_1 + A_2 + \dots + A_n \leq 6000$ [mm]
		without WSB and WSD reinforcement $A_1, A_2, \dots, A_n \leq 1600$ [mm] $A_1 + A_2 + \dots + A_n \leq 6000$ [mm]

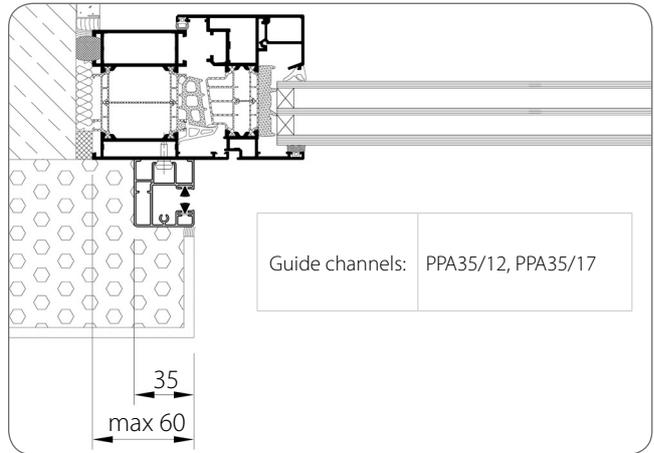
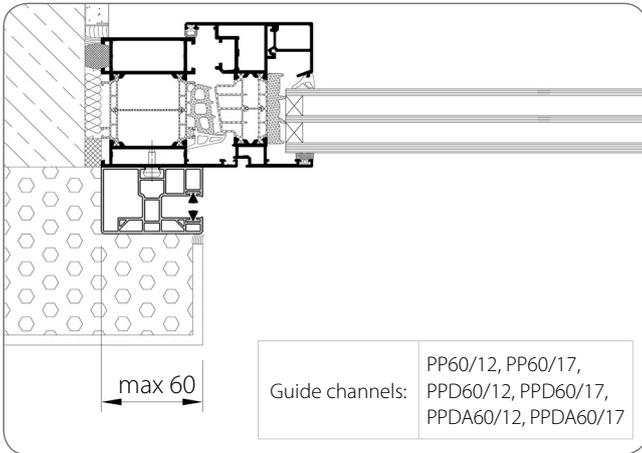
d) Roller shutter set with compound internal end caps and division wall.



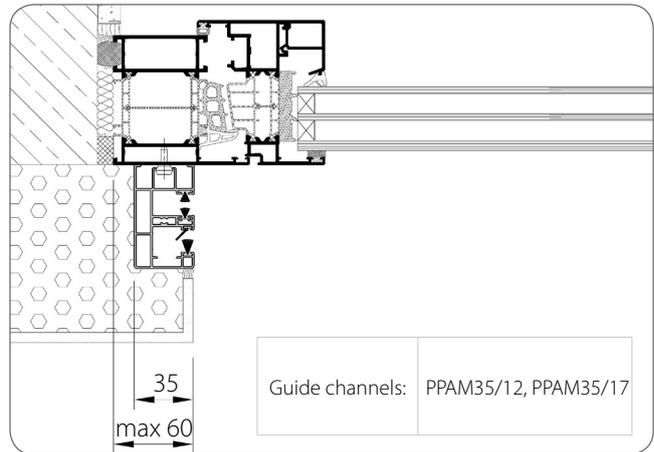
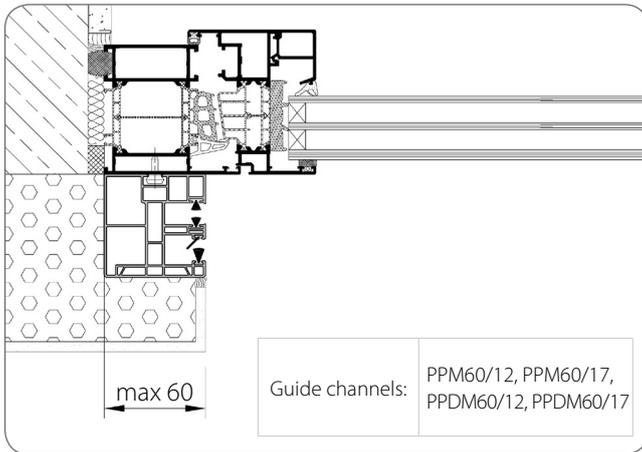
System	Type		Width
SKT	White color, use of PSBA or built-in from outside	with WSB, WSD, TSP reinforcement and PAC	$A_1 \leq 3300$ [mm]
			$A_2, A_3 \leq 2500$ [mm]
			$A_2 + A_3 \leq 5000$ [mm]
	others colours	with WSB and WSD steel reinforcement	$A_1, A_2, A_3 \leq 2500$ [mm]
			$A_2 + A_3 \leq 3200$ [mm]
			$A_1 + A_2 + A_3 \leq 5700$ [mm]
SKT + MKT SKT Nova	White color, use of PSBA or built-in from outside	with WSD bottom steel reinforcement	$A_1, A_2, A_3 \leq 2000$ [mm]
			$A_2 + A_3 \leq 3200$ [mm]
			$A_1 + A_2 + A_3 \leq 5200$ [mm]
	others colours	with WSD bottom steel reinforcement	$A_1, A_2, A_3 \leq 2000$ [mm]
			$A_2 + A_3 \leq 2500$ [mm]
			$A_1 + A_2 + A_3 \leq 4500$ [mm]

5.3. Maximum dimension of guide channel housing

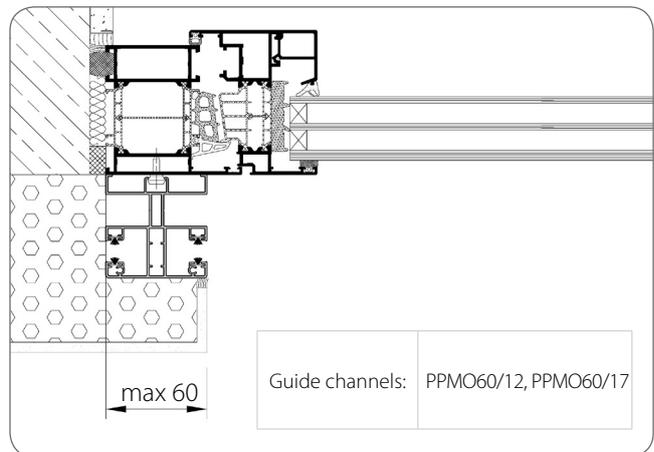
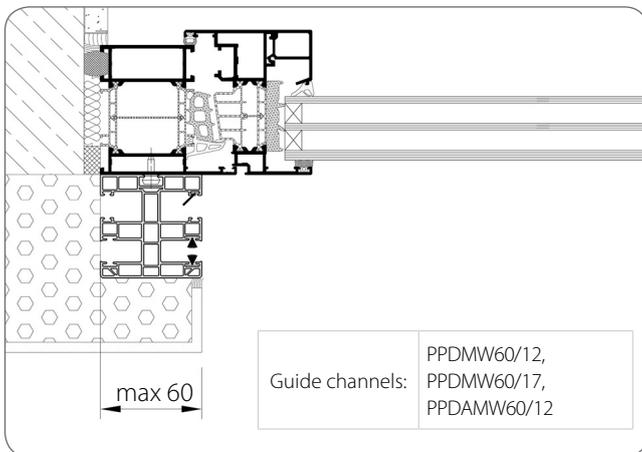
SKT



SKT + MKT



SKT NOVA



5.4. Maximum width of window frame

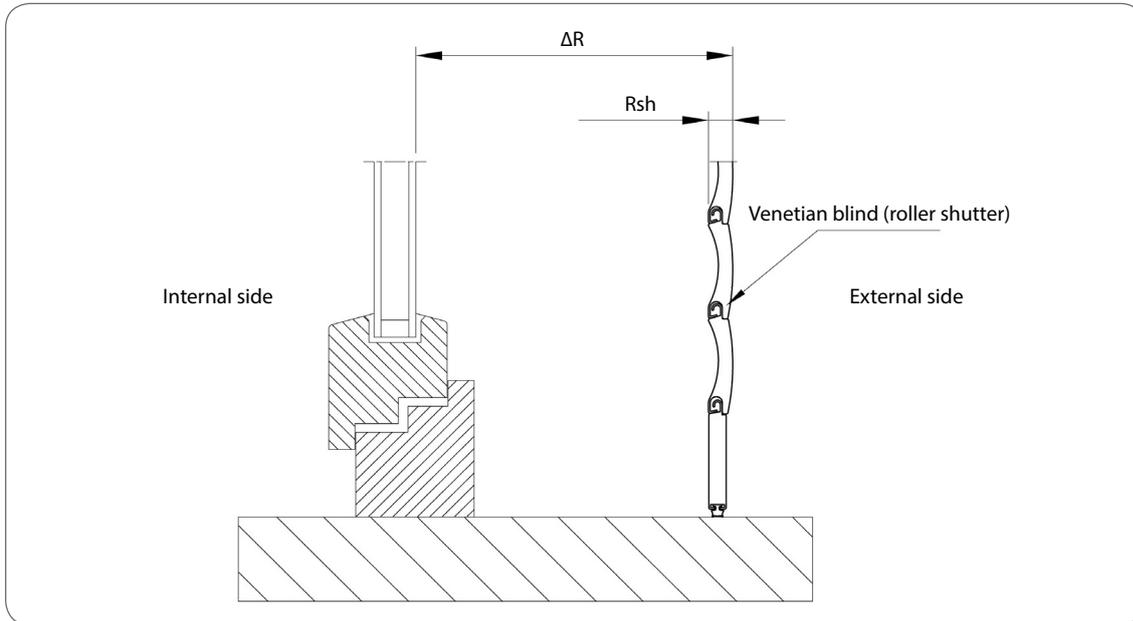
SKT		
Type of box		Width
SKT230/170	Revision from the bottom	80 [mm]
	Revision from the bottom + PSPD/22	102 [mm]
	Revision from the front	180 [mm]
SKT230/210	Revision from the bottom	80 [mm]
	Revision from the bottom + PSPD/22	102 [mm]
	Revision from the front	180 [mm]
SKT255/240	Revision from the bottom	80 [mm]
	Revision from the bottom + PSPD/22	102 [mm]
	Revision from the bottom + PSPD/25	105 [mm]
	Revision from the front	205 [mm]

SKT + MKT		
Type of box		Width
SKT230/170 + MKT	Revision from the bottom	80 [mm]
	Revision from the front	158 [mm]
SKT230/210 + MKT	Revision from the bottom	80 [mm]
	Revision from the front	158 [mm]
SKT255/240 + MKT	Revision from the bottom	80 [mm]
	Revision from the bottom+ PSPD/25	105 [mm]
	Revision from the front	183 [mm]

SKT Nova		
Type of box		Width
SKT230/170 Nova	Revision from the bottom	80 [mm]
	Revision from the front	158 [mm]
SKT230/210 Nova	Revision from the bottom	80 [mm]
	Revision from the front	158 [mm]
SKT255/240 Nova	Revision from the bottom	80 [mm]
	Revision from the bottom+ PSPD/25	105 [mm]
	Revision from the front	183 [mm]

6. THERMAL RESISTANCE

Roller shutter in closed position, which is installed in front of the window creates additional thermal resistance (ΔR) expressed in [m²K/W]. It is dependant on air permeability and thermal resistance of the curtain (**Rsh**).



It is necessary to calculate the coefficient of heat penetration for the window with closed roller shutter (**U_{ws}**) by using the value of additional thermal resistance (ΔR) and the coefficient of heat penetration for the whole window (**U_w**), and the formula

$$U_{ws} = \frac{1}{\frac{1}{U_w} + \Delta R}$$

where: **U_{ws}** – heat transmission coefficient of the window with closed venetian blind,
U_w – heat transmission coefficient of the window,
ΔR – additional thermal resistance caused by the layer of air contained between the roller shutter, the window and the closed roller shutter..

System	Box size	Air permeability class and additional thermal resistance ΔR [(m ² K)/W] in SKT systems								
		Roller shutter profiles								
		PT 37	PT 52	PA 37	PA 39	PA 40	PA43	PA 45	PA 52	PA 55
SKT SKT + MKT SKT NOVA	230/170	Class 4* 0,20	Class 4* 0,22	Class 4* 0,15						
	230/210	Class 4* 0,20	Class 4* 0,22	Class 4* 0,15						
	255/240	Class 4* 0,20	Class 4* 0,22	Class 4* 0,15						

* - class 5 of air permeability can be obtained if an additional seal is used between the first profile and the internal side of the box

7. PRODUCTION DATA

Where:

- W - WIDTH OF WINDOW [mm]
- Z - HEIGHT OF WINDOW [mm]
- A - WIDTH OF ROLLER SHUTTER / SET OF ROLLER SHUTTERS [mm]
- B - HEIGHT OF ROLLER SHUTTER [mm]
- V₁, V₂ - EXTENSIONS OF THE ROLLER SHUTTER BOX [mm]
- A_p - GUIDE CHANNELS SPACING [mm]

Rounding symbols

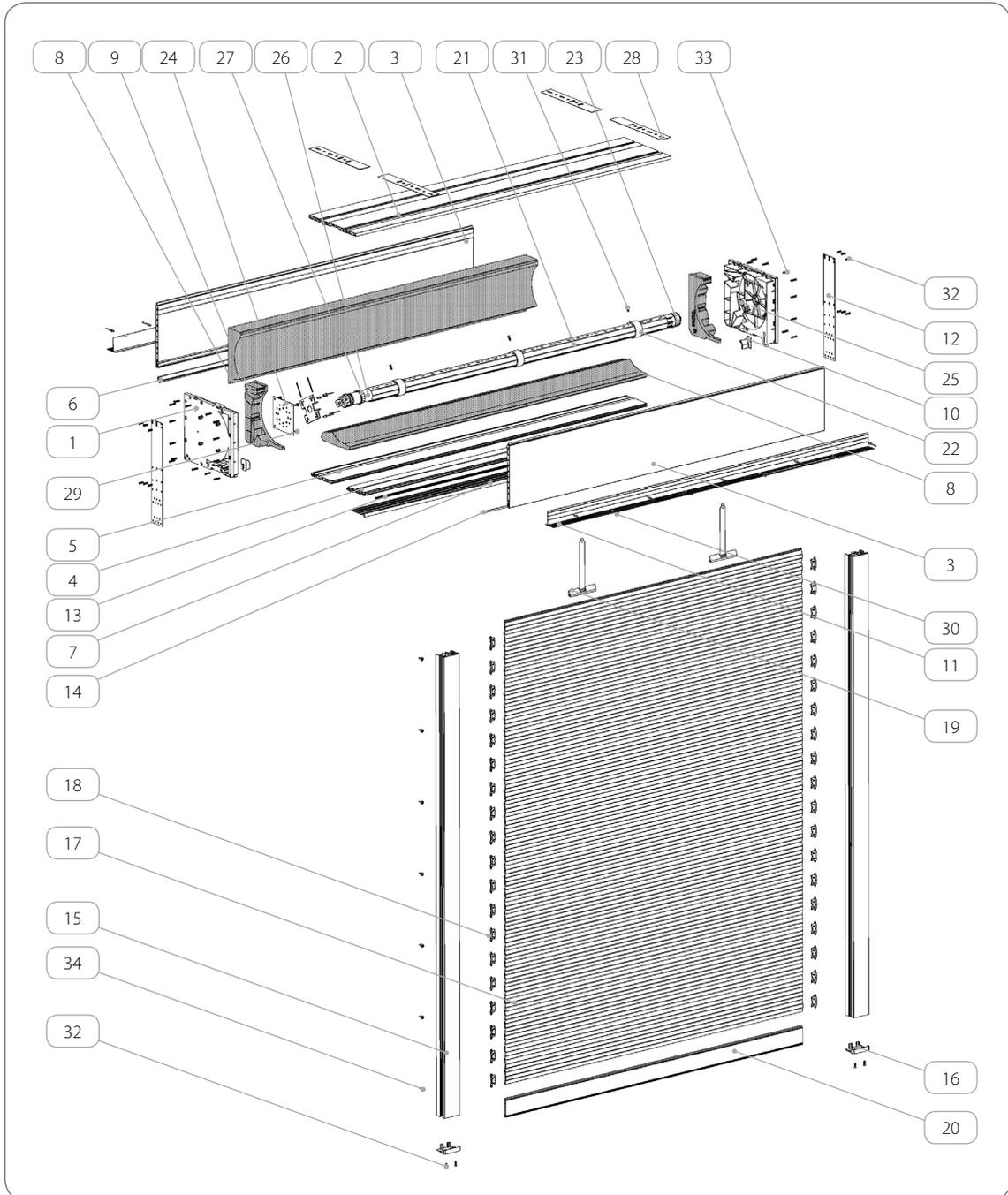
- ⌈x⌉ - ROUNDED UP
- ⌊y⌋ - ROUNDED DOWN

Examples:

$QUANTITY_{\frac{WKR}{Zn}/RD-2/4x13} = \lceil \frac{[(L_{GUIDE\ CHANNEL} - 100)/250] + 1}{1} \rceil = \lceil 4,3 \rceil = 5$
 $QUANTITY_{\frac{WKR}{Zn}/RD-2/4x13} = \lfloor \frac{[(L_{GUIDE\ CHANNEL} - 100)/250] + 1}{1} \rfloor = \lfloor 4,6 \rfloor = 4$

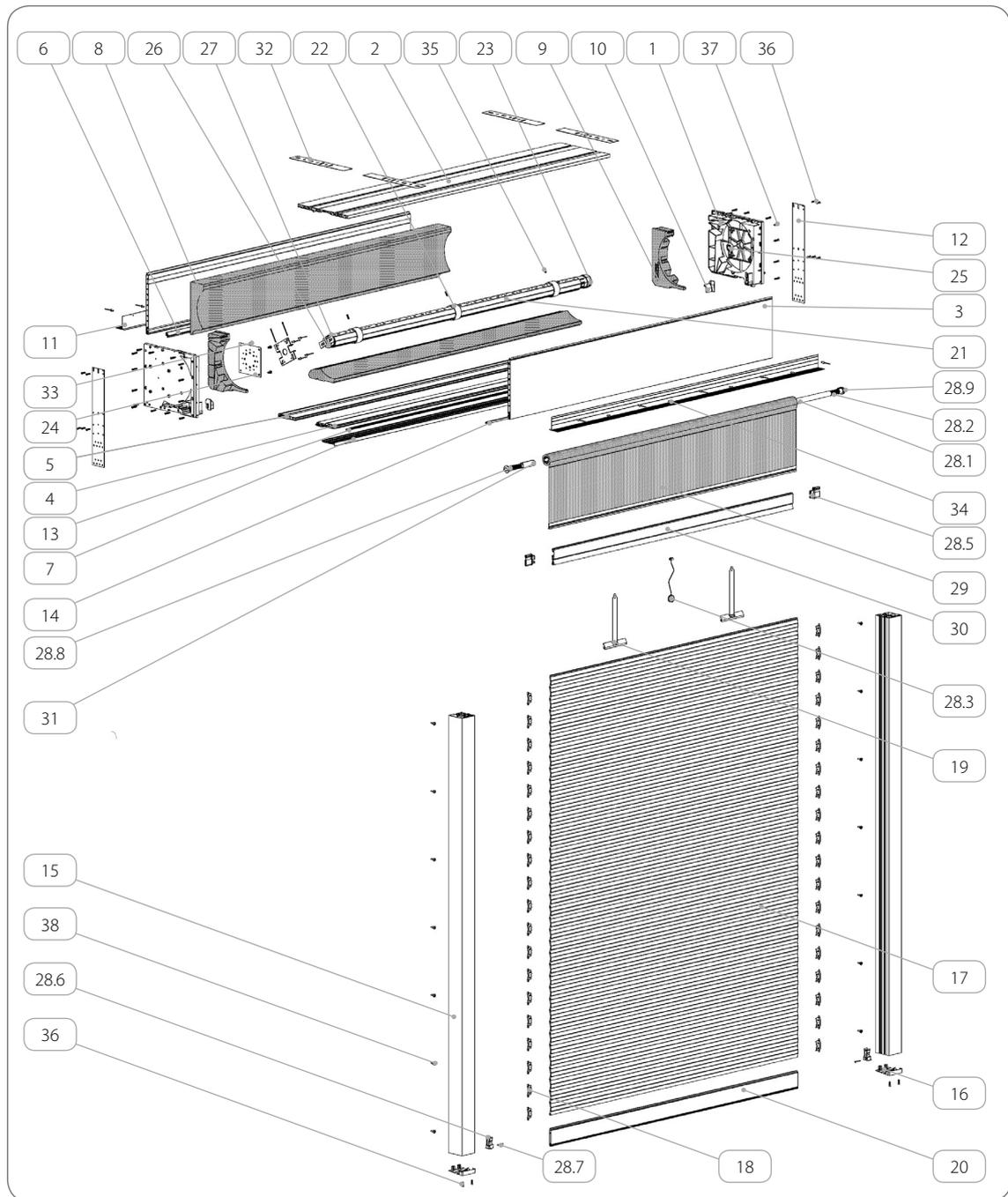
7.1. Example lists of components

7.1.1. System SKT



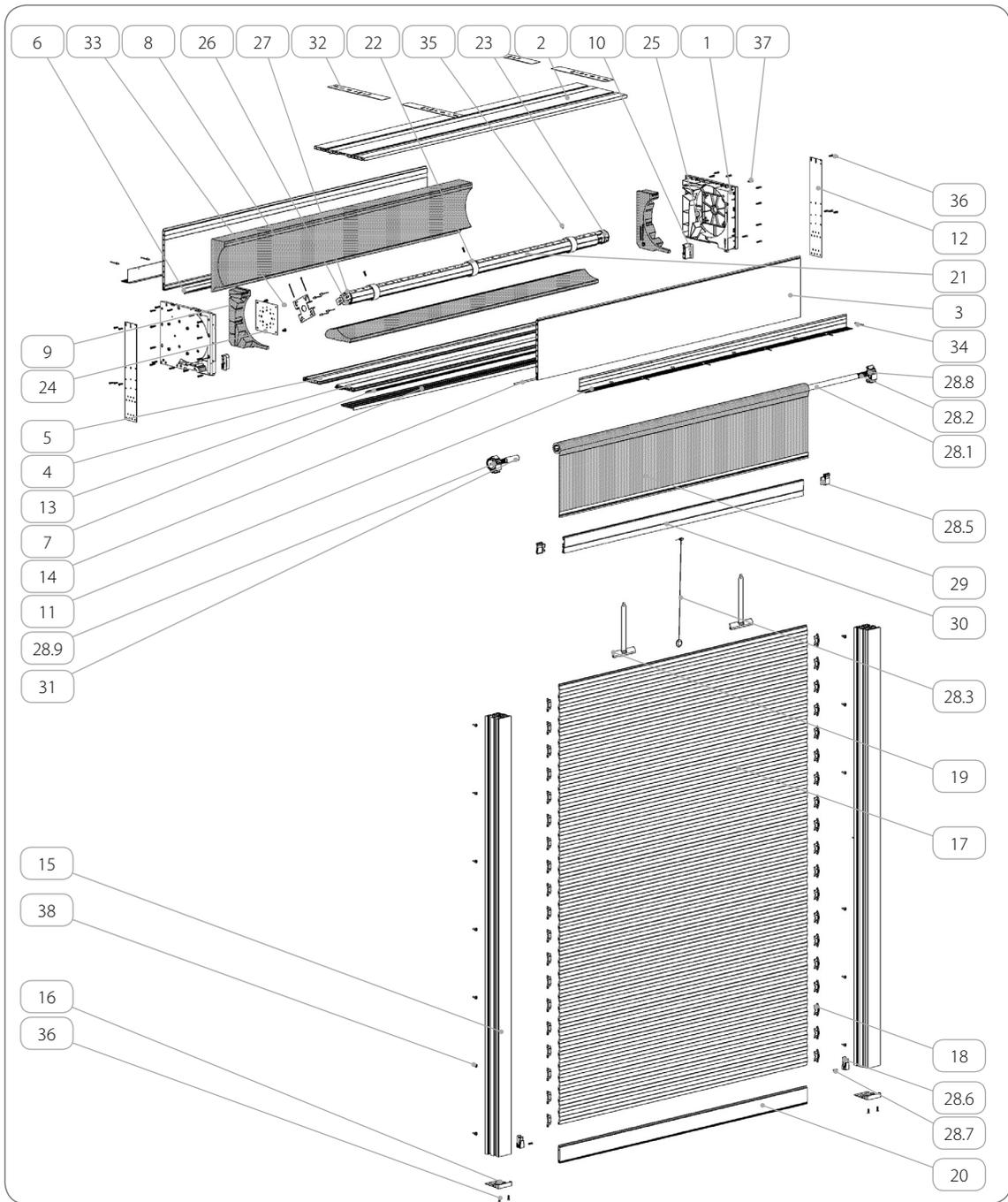
	Name of the component	Catalogue code
1.	End cap for shutter box SKT	PB
2.	SKT box - top profile	PSG
3.	SKT box - side profile	PSB
4.	SKT box - base profile	PSD
5.	Shutter box base revision profile	PSRD
6.	Box snap profile	PSZ
7.	Box adapting profile	
8.	Thermal insulation for SKT box	OC/A, OC+
9.	Thermal insulation for end cap	OCPB
10.	Entry guide	SLMI, SLMA
11.	Support	NT
12.	End cap to window frame connector	LPB - RO
13.	Brush seal	U/PSD
14.	Brush seal	U/PSB/R
15.	Guide channel	
16.	Guide channel side lock	
17.	Roller shutter curtain	
18.	Profile's side lock	
19.	Bracket	
20.	Endslat with rubber seal	
21.	Octagonal galvanized steel reel	SW
22.	Adapting ring for reel	PZ
23.	Cap	
24.	Adaptor for motor	WSU
25.	Ball bearing Ø28 mm	LO28
26.	Motor	
27.	Adaptor and coupling	
28.	Mounting anchor	KMO
29.	Fasteners M5 x 10 mm	ELZM5
30.	Aluminium rivets 4 x 8 mm	PN4x8
31.	Galvanized cone screw 3.9 x 16 mm	WKR/Zn/S/3,9x16
32.	Galvanized screw 4,2 x 16 mm	WKR/Zn/S/4,2x16
33.	Galvanized screw 4,2 x 25 mm	WKR/Zn/S/4,2x25
34.	Galvanized screws	WKR/Zn/RD-2/4x13

7.1.2. System SKT + MKT



	Name of the component	Catalogue code
1.	End cap for shutter box SKT with MKT	PBM
2.	SKT box - top profile	PSG
3.	SKT box - side profile	PSB
4.	SKT box - base profile	PSD, PSDW
5.	Shutter box base revision profile	PSRD
6.	Box snap profile	PSZ
7.	Box adapting profile	
8.	Thermal insulation for SKT box	OCM/A
9.	Thermal insulation for end cap	OCPB
10.	Entry guide	SLMI, SLMA
11.	Support	NT
12.	End cap to window frame connector	LPB - RO
13.	Brush seal	U/PSD
14.	Brush seal	U/PSB/M
15.	Guide channel	
16.	Guide channel side lock	
17.	Roller shutter curtain	
18.	Profile's side lock	
19.	Bracket	
20.	Endslat with rubber seal	
21.	Octagonal galvanized steel reel	SW
22.	Adapting ring for reel	PZ
23.	Cap	
24.	Adaptor for motor	WSU
25.	Ball bearing Ø28 mm	LO28
26.	Motor	
27.	Adaptor and coupling	
28.	Moskito set	ZMKTSKT
28.1	Spring protection tube	
28.2	Spring	
28.3	String	
28.4	Spring coupling	
28.5	Cap	
28.6	Cap seat	
28.7	Screw	
28.8	Ball bearing	
28.9	Support	
29.	Round reel with mosquito-net	RNSMKT
30.	Endslat	LDSMMKT
31.	Brake	SR52050N
32.	Mounting anchor	KMO
33.	Fasteners M5 x 10 mm	ELZM5
34.	Aluminium rivets 4 x 8 mm	PN4x8
35.	Galvanized cone screw 3.9 x 16 mm	WKR/Zn/S/3,9x16
36.	Galvanized screw 4,2 x 16 mm	WKR/Zn/S/4,2x16
37.	Galvanized screw 4,2 x 25 mm	WKR/Zn/S/4,2x25
38.	Galvanized screws	WKR/Zn/RD-2/4x13

7.1.3. System SKT Nova



	Name of the component	Catalogue code
1.	End cap for shutter box SKT with MKT	PBM/W
2.	SKT box - top profile	PSG
3.	SKT box - side profile	PSB
4.	SKT box - base profile	PSD, PSDW
5.	Shutter box base revision profile	PSRD
6.	Box snap profile	PSZ
7.	Box adapting profile	
8.	Thermal insulation for SKT box	OCM/A
9.	Thermal insulation for end cap	OCPB
10.	Entry guide	SLMI/A, SLMA/A
11.	Support	NT
12.	End cap to window frame connector	LPB - RO
13.	Brush seal	U/PSD
14.	Brush seal	U/PSB/R
15.	Guide channel	
16.	Guide channel side lock	
17.	Roller shutter curtain	
18.	Profile's side lock	
19.	Bracket	
20.	Endslat with rubber seal	
21.	Octagonal galvanized steel reel	SW
22.	Adapting ring for reel	PZ
23.	Cap	
24.	Adaptor for motor	WSU
25.	Ball bearing Ø28 mm	LO28
26.	Motor	
27.	Adaptor and coupling	
28.	Moskito set	ZMKTSKT/W
28.1	Spring cover	
28.2	Spring	
28.3	String	
28.4	Coupling	
28.5	Cap	
28.6	Cap seat	
28.7	Screw	
28.8	Ball bearing	
28.9	Insect screen side	
29.	Round reel with mosquito-net	
30.	Endslat	RNSMKT
31.	Brake	SR52050N
32.	Mounting anchor	KMO
33.	Fasteners M5 x 10 mm	ELZM5
34.	Aluminium rivets 4 x 8 mm	PN4x8
35.	Galvanized cone screw 3.9 x 16 mm	WKR/Zn/S/3,9x16
36.	Galvanized screw 4,2 x 16 mm	WKR/Zn/S/4,2x16
37.	Galvanized screw 4,2 x 25 mm	WKR/Zn/S/4,2x25
38.	Galvanized screws	WKR/Zn/RD-2/4x13

7.2. Adapting profiles

7.2.1. Selection of adapting profiles

DOBROPLAST	
Window profile	Adapting profile
Avantgarde 7000	PSAW/8
Avantgarde 9000	
Ovlo	
Ovlo classic	
Encore	
Prime	

INOUSIC	
Window profile	Adapting profile
Arcade	PSAW/6,8
Eforte	PSAW/7
Prestige	PSAW/8

VEKA	
Window profile	Adapting profile
Alphaline 90MD	PSAW/6,8
Efectline	
Softline 82 AC	
Topline	
Perfectline	PSAW/6,7
Softline 82	
Artline 82	PSAW/8/2
Slide 70	PSA
Slide 82	PSA

ALUPLAST	
Window profile	Adapting profile
Ideal 2000	PSAW/6,8
Ideal 4000	
Ideal 5000	
Ideal 7000	
Ideal 8000	
energeto 4000	
energeto 5000	
energeto 5000 view	
energeto 8000	
HST85	
Smart-slide	
Nord-Line	
Blockprofile NL	
Inertec 85 mm	

KNIPPING	
Window profile	Adapting profile
System 76 AD	PSAW/8/2
System 88	

OKNOPLAST	
Window profile	Adapting profile
Winergetic Premium	PSAW/6,8

FORIS	
Window profile	Adapting profile
100	PSA
500	
501	

GEALAN	
Window profile	Adapting profile
S 8000 IQ	PSAW/7,9
S 9000	
S 3000	PSAW/8

TROCAL	
Window profile	Adapting profile
InnoNova 70 AD Classic	PSAW/8/2
InnoNova 70 AD Natur	
InnoNova 70 AD Balance	
88+	PSAW/8

SALAMANDER	
Window profile	Adapting profile
Brugmann bluEvolution: 82 AD	PSA
Brugmann bluEvolution: 82 MD	
bluEvolution: 92	PSAW/6,8
Salamander: Streamline	
HST	PSAW/6,8

EKOSUN	
Window profile	Adapting profile
EkoSun 7	PSA
EkoSun 6	
EkoSun 70	

SCHÜCO	
Window profile	Adapting profile
Corona SI 82	PSAW/7
Living	
Alu Inside (wersja Standard)	PSA
Alu Inside (wersja Passive House)	
Corona CT 70	PSAW/6,8

REHAU	
Window profile	Adapting profile
Geneo	PSAW/8
Euro-Design 86	
Brilliant-Design (profil 70 mm)	
Synego	

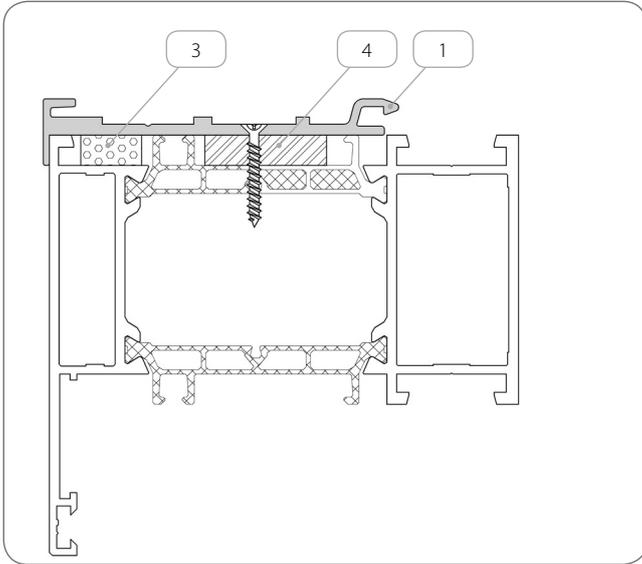
WITAL	
Window profile	Adapting profile
Wital Prestige Therm Light	PSAW/8
Wital Prestige 70 mm	
Wital Prestige Therm	

DRUTEX	
Window profile	Adapting profile
Iglo energy	PSAW/7
Iglo 5	PSAW/6,8

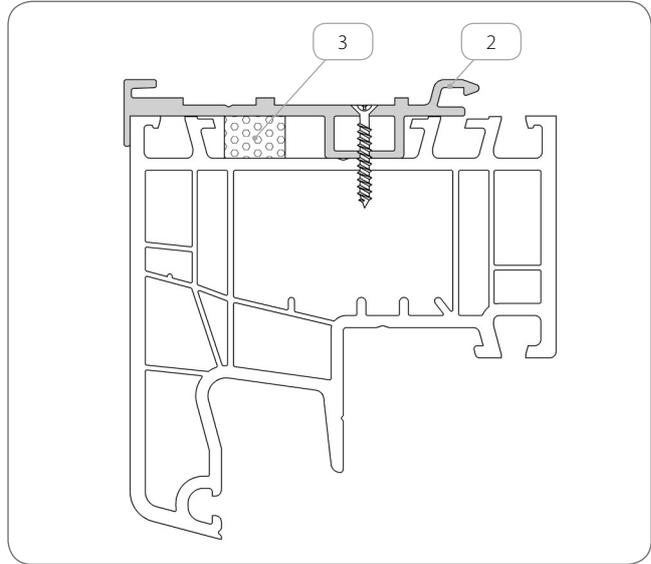
SONAROL	
Window profile	Adapting profile
PERFECTHERM	PSAW/8
OPTITHERM	
CLASICTHERM	

7.2.2. Installation of adapting profiles

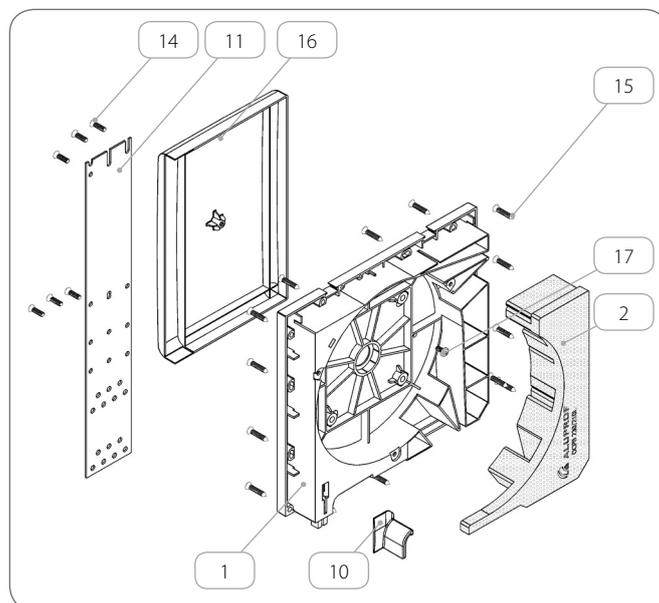
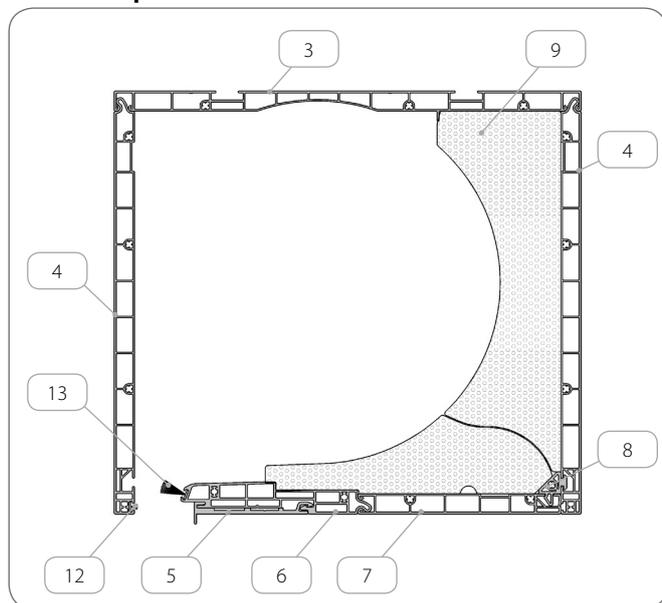
Shutter box adapting profile without bracket



Box adapting profile with bracket

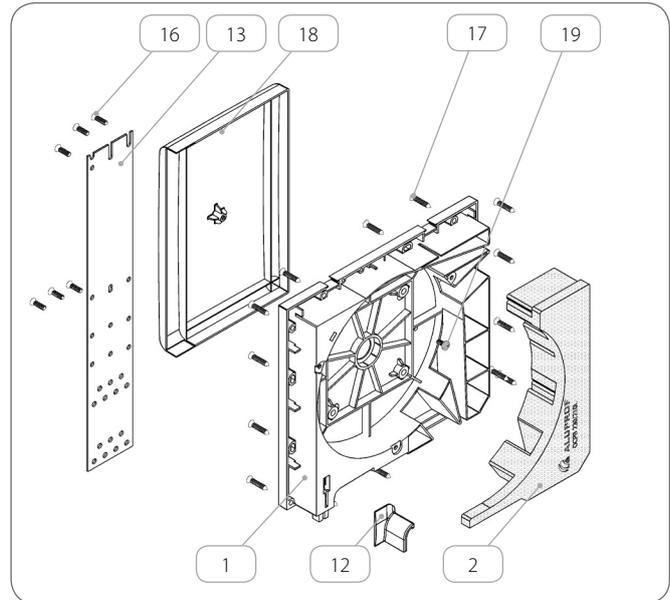
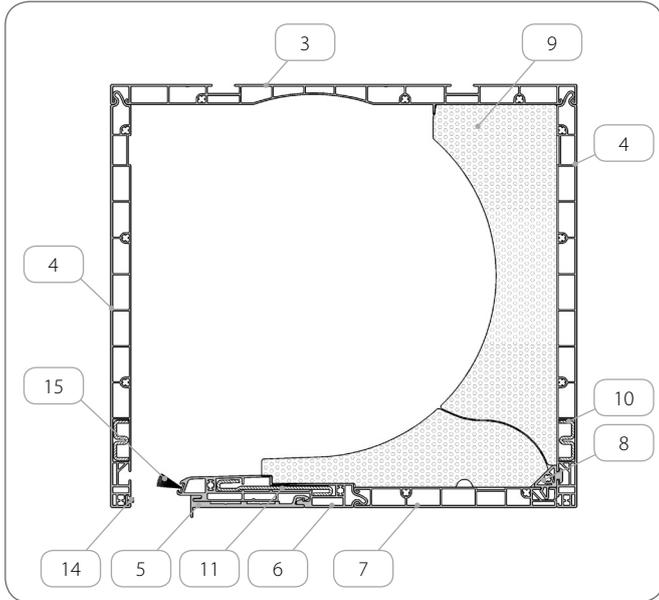


	Name of the component	Length	Quantity	Catalogue code
1.	Box adapting profile	A-20 [mm]	1 [pcs.]	PSA
2.	Box adapting profile with bracket	A-20 [mm]	1 [pcs.]	PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2
3.	Expansion strap	A-20 [mm]	1 [pcs.]	TR/10x4
4.	Spacer profile	A-20 [mm]	1 [pcs.]	PD/PSA

7.3. BOX
7.3.1. SKT Opoterm
7.3.1.1. Cutting specification and list of components for a single roller shutter
Box SKT Opoterm


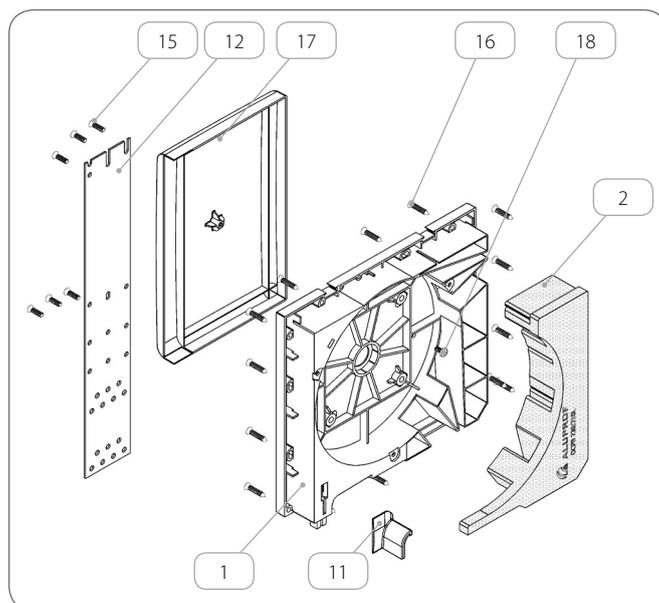
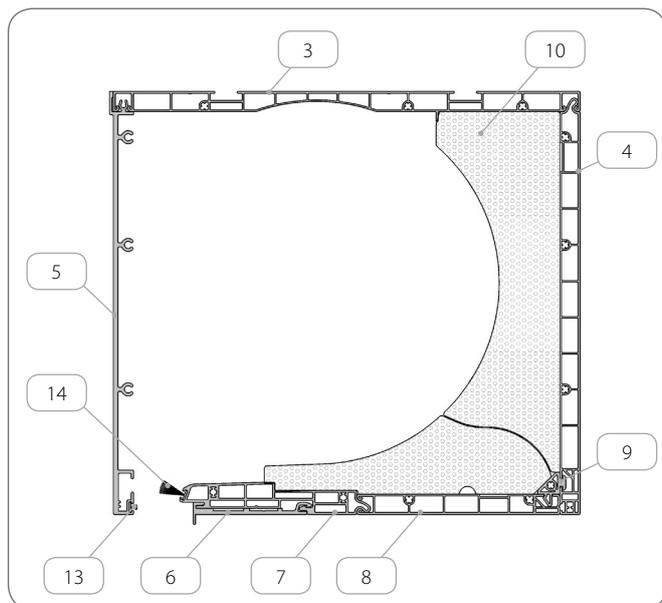
	Name of the component	Length	Quantity			Catalogue code		
			SKT230/170	SKT230/210	SKT255/240	SKT230/170	SKT230/210	SKT255/240
1.	End cap		1 [pair]			PB/230/170	PB/230/210	PB/255/240
2.	Thermal insulation for end cap		1 [pair]			OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
3.	SKT box - top profile	A-20 [mm]	1 [pcs.]			PSG/230		PSG/255
4.	SKT box - side profile	A-20 [mm]	2 [pcs.]			PSB/170	PSB/210	PSB/240
5.	Box adapting profile	A-20 [mm]	1 [pcs.]			PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
6.	SKT box - base profile	A-20 [mm]	1 [pcs.]			PSD		
7.	Shutter box base revision profile	A-20 [mm]	1 [pcs.]			PSRD/100		PSRD/125
8.	Box snap profile	A-20 [mm]	1 [pcs.]			PSZ		
9.	Thermal insulation for SKT box	A-89 [mm]	1 [set]			OC/A/S/230/170 OC/A/N/230/170	OC/A/S/230/210 OC/A/N/230/210 OC+/N/230/210	OC/A/S/255/240 OC/A/N/255/240 OC+/N/255/240
10.	Entry guide		1 [pair]			SLMI, SLMA		
11.	End cap to window frame connector		2 [pcs.]			LPB-RO		
12.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSB/R		
13.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSD		
14.	Galvanized screw 4,2 x 16 mm		12 [pcs.]			WKR/Zn/S/4,2x16		
15.	Galvanized screw 4,2 x 25 mm		24 [pcs.]			WKR/Zn/S/4,2x25		
	Revision from the bottom		28 [pcs.]	30 [pcs.]				
	Revision from the front		22 [pcs.]	24 [pcs.]	28 [pcs.]			
Optional elements								
16.	Mask for the end cap		2 [pcs.]			NPB/230/170	NPB/230/210	NPB/255/240
17.	Galvanized screw 4 x 8 mm		2 [pcs.]			WKR/Zn/W/4x8		

Box SKT Opoterm with WSB and WSD



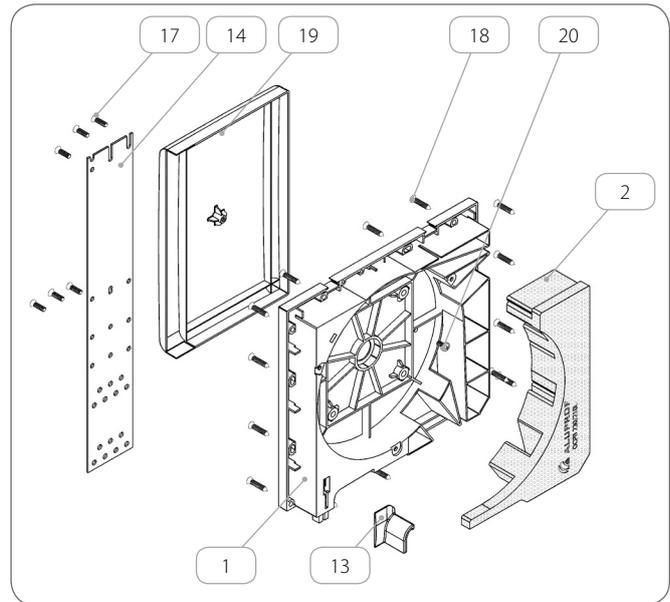
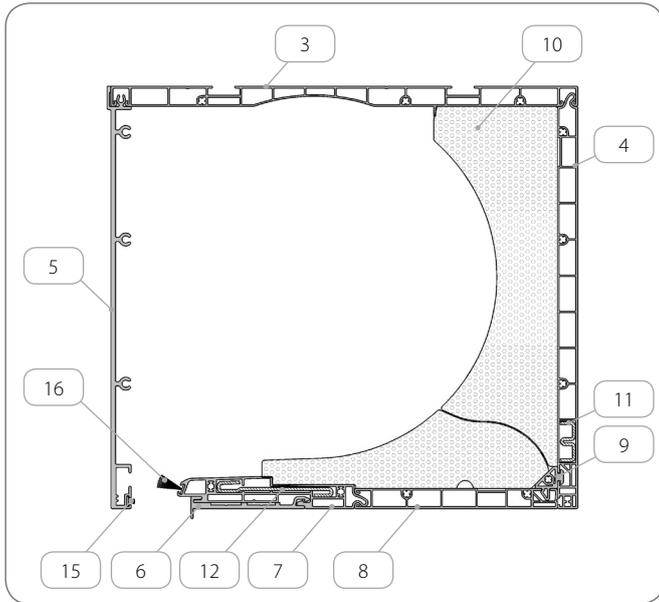
	Name of the component	Length	Quantity			Catalogue code		
			SKT230/170	SKT230/210	SKT255/240	SKT230/170	SKT230/210	SKT255/240
1.	End cap		1 [pair]			PB/230/170	PB/230/210	PB/255/240
2.	Thermal insulation for end cap		1 [pair]			OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
3.	SKT box - top profile	A-20 [mm]	1 [pcs.]			PSG/230		PSG/255
4.	SKT box - side profile	A-20 [mm]	2 [pcs.]			PSB/170	PSB/210	PSB/240
5.	Box adapting profile	A-20 [mm]	1 [pcs.]			PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
6.	SKT box - base steel profile reinforcement	A-20 [mm]	1 [pcs.]			PSDW		
7.	Shutter box base revision profile	A-20 [mm]	1 [pcs.]			PSRD/100		PSRD/125
8.	Box snap profile	A-20 [mm]	1 [pcs.]			PSZ		
9.	Thermal insulation for SKT box	A-89 [mm]	1 [set]			OC/A/S/230/170 OC/A/N/230/170	OC/A/S/230/210 OC/A/N/230/210 OC+/N/230/210	OC/A/S/255/240 OC/A/N/255/240 OC+/N/255/240
10.	Side steel reinforcement	A-20 [mm]	2 [pcs.]			WSB		
11.	Bottom steel reinforcement	A-20 [mm]	1 [pcs.]			WSD		
12.	Entry guide		1 [pair]			SLMI, SLMA		
13.	End cap to window frame connector		2 [pcs.]			LPB-RO		
14.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSB/R		
15.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSD		
16.	Galvanized screw 4,2 x 16 mm		12 [pcs.]			WKR/Zn/S/4,2x16		
17.	Galvanized screw 4,2 x 25 mm					WKR/Zn/S/4,2x25		
	Revision from the bottom		24 [pcs.]	28 [pcs.]	30 [pcs.]			
	Revision from the front		22 [pcs.]	24 [pcs.]	28 [pcs.]			
Optional elements								
18.	Mask for the end cap		2 [pcs.]			NPB/230/170	NPB/230/210	NPB/255/240
19.	Galvanized screw 4 x 8 mm		2 [pcs.]			WKR/Zn/W/4x8		

Box SKT Opoterm with PSBA



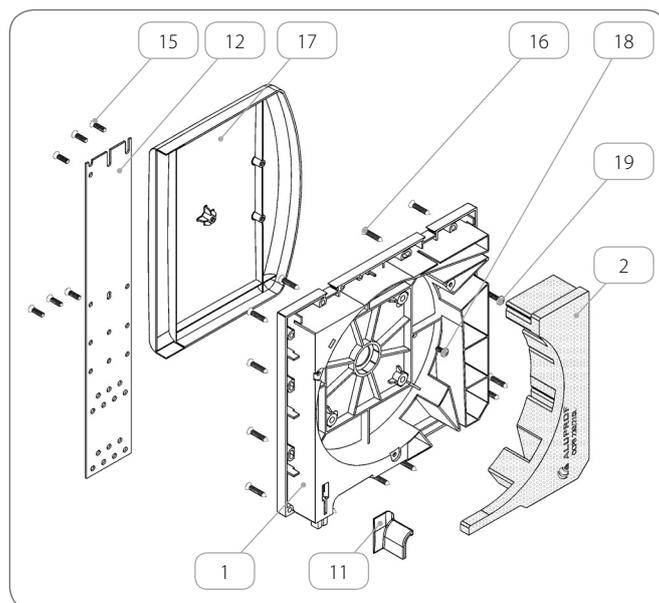
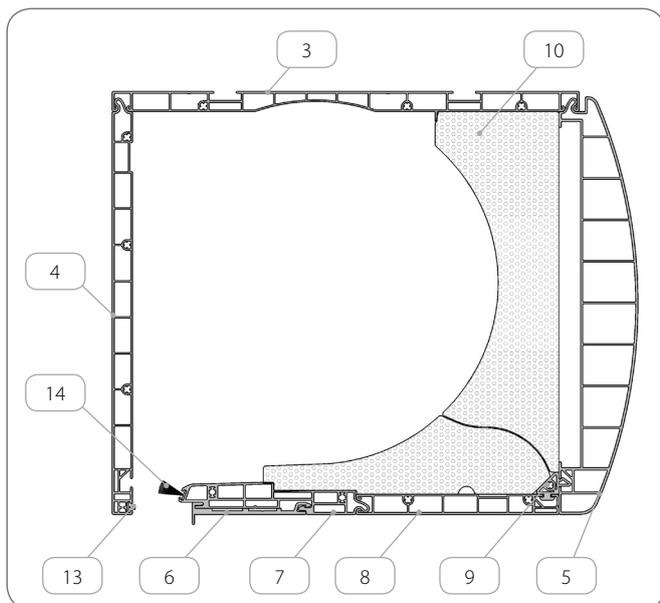
	Name of the component	Length	Quantity			Catalogue code		
			SKT230/170	SKT230/210	SKT255/240	SKT230/170	SKT230/210	SKT255/240
1.	End cap		1 [pair]			PB/230/170	PB/230/210	PB/255/240
2.	Thermal insulation for end cap		1 [pair]			OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
3.	SKT box - top profile	A-20 [mm]	1 [pcs.]			PSG/230		PSG/255
4.	SKT box - side profile	A-20 [mm]	1 [pcs.]			PSB/170	PSB/210	PSB/240
5.	Aluminium shutter box side profile	A-20 [mm]	1 [pcs.]			PSBA/170	PSBA/210	PSBA/240
6.	Box adapting profile	A-20 [mm]	1 [pcs.]			PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
7.	SKT box - base profile	A-20 [mm]	1 [pcs.]			PSD		
8.	Shutter box base revision profile	A-20 [mm]	1 [pcs.]			PSRD/100		PSRD/125
9.	Box snap profile	A-20 [mm]	1 [pcs.]			PSZ		
10.	Thermal insulation for SKT box	A-89 [mm]	1 [set]			OC/A/S/230/170 OC/A/N/230/170	OC/A/S/230/210 OC/A/N/230/210 OC+/N/230/210	OC/A/S/255/240 OC/A/N/255/240 OC+/N/255/240
11.	Entry guide		1 [pair]			SLMI, SLMA		
12.	End cap to window frame connector		2 [pcs.]			LPB-RO		
13.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSB/R		
14.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSD		
15.	Galvanized screw 4,2 x 16 mm		12 [pcs.]			WKR/Zn/S/4,2x16		
16.	Galvanized screw 4,2 x 25 mm					WKR/Zn/S/4,2x25		
	Revision from the bottom		24 [pcs.]	28 [pcs.]	30 [pcs.]			
	Revision from the front		22 [pcs.]	24 [pcs.]	28 [pcs.]			
Optional elements								
17.	Mask for the end cap		2 [pcs.]			NPB/230/170	NPB/230/210	NPB/255/240
18.	Galvanized screw 4 x 8 mm		2 [pcs.]			WKR/Zn/W/4x8		

Box SKT Opoterm with PSBA and WSB and WSD



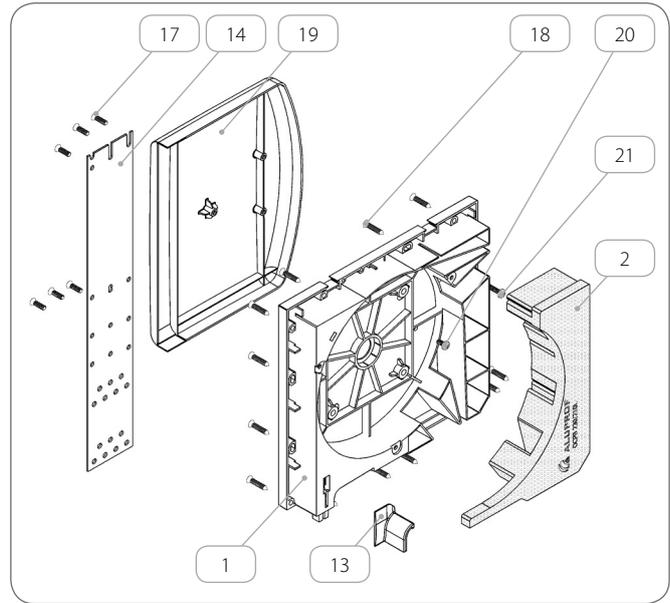
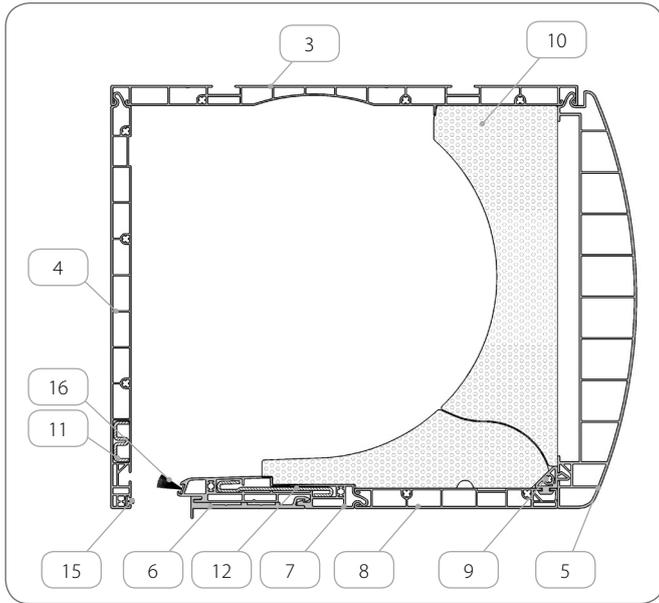
	Name of the component	Length	Quantity			Catalogue code		
			SKT230/170	SKT230/210	SKT255/240	SKT230/170	SKT230/210	SKT255/240
1.	End cap		1 [pair]			PB/230/170	PB/230/210	PB/255/240
2.	Thermal insulation for end cap		1 [pair]			OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
3.	SKT box - top profile	A-20 [mm]	1 [pcs.]			PSG/230		PSG/255
4.	SKT box - side profile	A-20 [mm]	1 [pcs.]			PSB/170	PSB/210	PSB/240
5.	Aluminium shutter box side profile	A-20 [mm]	1 [pcs.]			PSBA/170	PSBA/210	PSBA/240
6.	Box adapting profile	A-20 [mm]	1 [pcs.]			PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
7.	SKT box - base steel profile reinforcement	A-20 [mm]	1 [pcs.]			PSDW		
8.	Shutter box base revision profile	A-20 [mm]	1 [pcs.]			PSRD/100		PSRD/125
9.	Box snap profile	A-20 [mm]	1 [pcs.]			PSZ		
10.	Thermal insulation for SKT box	A-89 [mm]	1 [set]			OC/A/S/230/170 OC/A/N/230/170	OC/A/S/230/210 OC/A/N/230/210 OC+/N/230/210	OC/A/S/255/240 OC/A/N/255/240 OC+/N/255/240
11.	Side steel reinforcement	A-20 [mm]	1 [pcs.]			WSB		
12.	Bottom steel reinforcement	A-20 [mm]	1 [pcs.]			WSD		
13.	Entry guide		1 [pair]			SLMI, SLMA		
14.	End cap to window frame connector		2 [pcs.]			LPB-RO		
15.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSB/R		
16.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSD		
17.	Galvanized screw 4,2 x 16 mm		12 [pcs.]			WKR/Zn/S/4,2x16		
18.	Galvanized screw 4,2 x 25 mm		24 [pcs.]			WKR/Zn/S/4,2x25		
	Revision from the bottom		28 [pcs.]	30 [pcs.]				
	Revision from the front		22 [pcs.]	24 [pcs.]	28 [pcs.]			
Optional elements								
19.	Mask for the end cap		2 [pcs.]			NPB/230/170	NPB/230/210	NPB/255/240
20.	Galvanized screw 4 x 8 mm		2 [pcs.]			WKR/Zn/W/4x8		

Box SKT Opoterm with PSBO



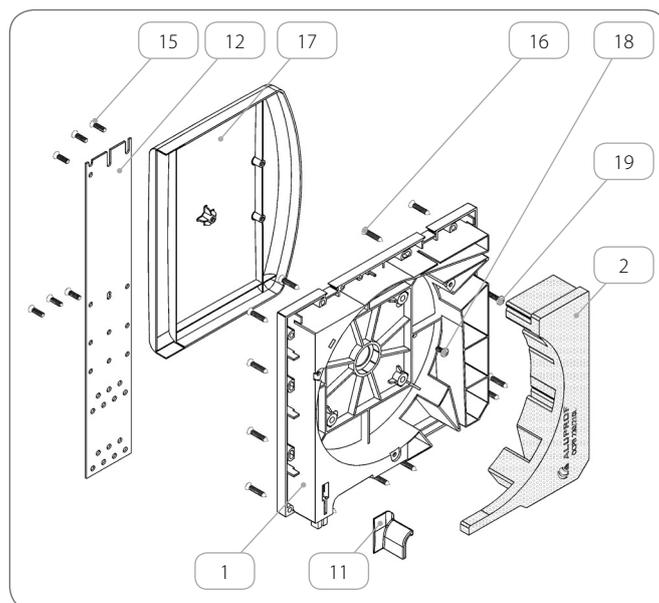
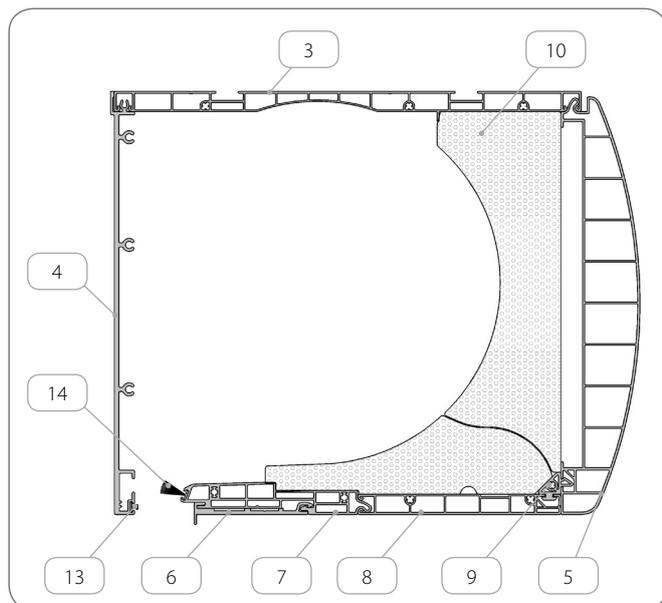
	Name of the component	Length	Quantity			Catalogue code		
			SKT230/170	SKT230/210	SKT255/240	SKT230/170	SKT230/210	SKT255/240
1.	End cap		1 [pair]			PB/230/170	PB/230/210	PB/255/240
2.	Thermal insulation for end cap		1 [pair]			OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
3.	SKT box - top profile	A-20 [mm]	1 [pcs.]			PSG/230		PSG/255
4.	SKT box - side profile	A-20 [mm]	1 [pcs.]			PSB/170	PSB/210	PSB/240
5.	Oval shutter box side profile	A-20 [mm]	1 [pcs.]			PSBO/170	PSBO/210	PSBO/240
6.	Box adapting profile	A-20 [mm]	1 [pcs.]			PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
7.	SKT box - base profile	A-20 [mm]	1 [pcs.]			PSD		
8.	Shutter box base revision profile	A-20 [mm]	1 [pcs.]			PSRD/100		PSRD/125
9.	Box snap profile	A-20 [mm]	1 [pcs.]			PSZ		
10.	Thermal insulation for SKT box	A-89 [mm]	1 [set]			OC/A/S/230/170 OC/A/N/230/170	OC/A/S/230/210 OC/A/N/230/210 OC+/N/230/210	OC/A/S/255/240 OC/A/N/255/240 OC+/N/255/240
11.	Entry guide		1 [pair]			SLMI, SLMA		
12.	End cap to window frame connector		2 [pcs.]			LPB-RO		
13.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSB/R		
14.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSD		
15.	Galvanized screw 4,2 x 16 mm		12 [pcs.]			WKR/Zn/S/4,2x16		
16.	Galvanized screw 4,2 x 25 mm					WKR/Zn/S/4,2x25		
	Revision from the front		22 [pcs.]	24 [pcs.]	28 [pcs.]			
Optional elements								
17.	Mask for the end cap		2 [pcs.]			NPB/230/170	NPB/230/210	NPB/255/240
18.	Galvanized screw 4 x 8 mm		2 [pcs.]			WKR/Zn/W/4x8		
19.	Galvanized screw 4 x 16 mm		2 [pcs.]			WKR/Zn/W/4x16		

Box SKT Opoterm with PSBO and WSB and WSD



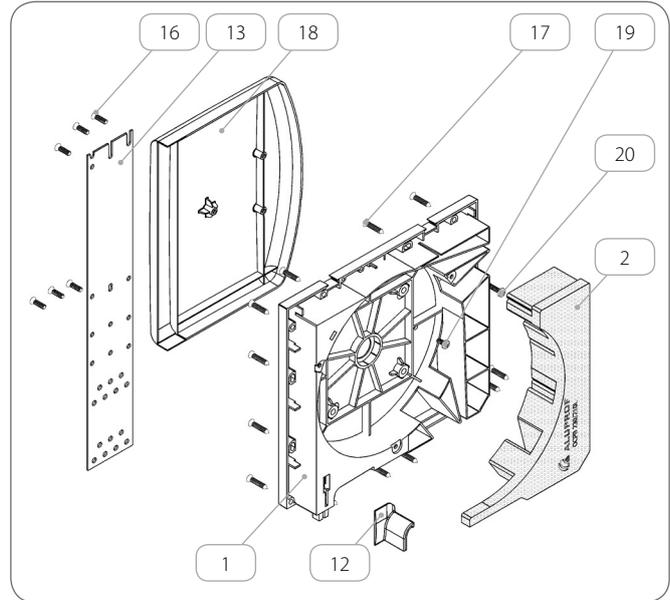
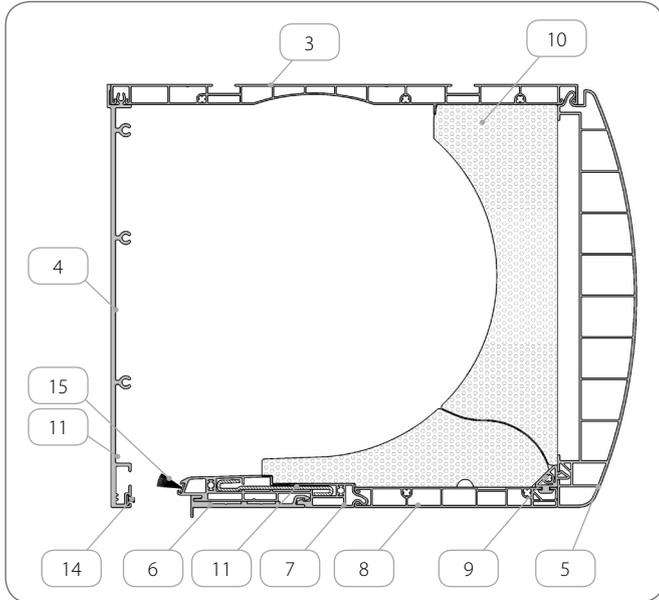
	Name of the component	Length	Quantity			Catalogue code		
			SKT230/170	SKT230/210	SKT255/240	SKT230/170	SKT230/210	SKT255/240
1.	End cap		1 [pair]			PB/230/170	PB/230/210	PB/255/240
2.	Thermal insulation for end cap		1 [pair]			OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
3.	SKT box - top profile	A-20 [mm]	1 [pcs.]			PSG/230		PSG/255
4.	SKT box - side profile	A-20 [mm]	1 [pcs.]			PSB/170	PSB/210	PSB/240
5.	Oval shutter box side profile	A-20 [mm]	1 [pcs.]			PSBO/170	PSBO/210	PSBO/240
6.	Box adapting profile	A-20 [mm]	1 [pcs.]			PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
7.	SKT box - base steel profile reinforcement	A-20 [mm]	1 [pcs.]			PSDW		
8.	Shutter box base revision profile	A-20 [mm]	1 [pcs.]			PSRD/100		PSRD/125
9.	Box snap profile	A-20 [mm]	1 [pcs.]			PSZ		
10.	Thermal insulation for SKT box	A-89 [mm]	1 [set]			OC/A/S/230/170 OC/A/N/230/170	OC/A/S/230/210 OC/A/N/230/210 OC+/N/230/210	OC/A/S/255/240 OC/A/N/255/240 OC+/N/255/240
11.	Side steel reinforcement	A-20 [mm]	1 [pcs.]			WSB		
12.	Bottom steel reinforcement	A-20 [mm]	1 [pcs.]			WSD		
13.	Entry guide		1 [pair]			SLMI, SLMA		
14.	End cap to window frame connector		2 [pcs.]			LPB-RO		
15.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSB/R		
16.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSD		
17.	Galvanized screw 4,2 x 16 mm		12 [pcs.]			WKR/Zn/S/4,2x16		
18.	Galvanized screw 4,2 x 25 mm		22 [pcs.]			WKR/Zn/S/4,2x25		
	Revision from the front		24 [pcs.]	28 [pcs.]				
Optional elements								
19.	Mask for the end cap		2 [pcs.]			NPB/230/170	NPB/230/210	NPB/255/240
20.	Galvanized screw 4 x 8 mm		2 [pcs.]			WKR/Zn/W/4x8		
21.	Galvanized screw 4 x 16 mm		2 [pcs.]			WKR/Zn/W/4x16		

Box SKT Opoterm with PSBA and PSBO



	Name of the component	Length	Quantity			Catalogue code		
			SKT230/170	SKT230/210	SKT255/240	SKT230/170	SKT230/210	SKT255/240
1.	End cap		1 [pair]			PB/230/170	PB/230/210	PB/255/240
2.	Thermal insulation for end cap		1 [pair]			OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
3.	SKT box - top profile	A-20 [mm]	1 [pcs.]			PSG/230		PSG/255
4.	Aluminium shutter box side profile	A-20 [mm]	1 [pcs.]			PSBA/170	PSBA/210	PSBA/240
5.	Oval shutter box side profile	A-20 [mm]	1 [pcs.]			PSBO/170	PSBO/210	PSBO/240
6.	Box adapting profile	A-20 [mm]	1 [pcs.]			PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
7.	SKT box - base profile	A-20 [mm]	1 [pcs.]			PSD		
8.	Shutter box base revision profile	A-20 [mm]	1 [pcs.]			PSRD/100		PSRD/125
9.	Box snap profile	A-20 [mm]	1 [pcs.]			PSZ		
10.	Thermal insulation for SKT box	A-89 [mm]	1 [set]			OC/A/S/230/170 OC/A/N/230/170	OC/A/S/230/210 OC/A/N/230/210 OC+/N/230/210	OC/A/S/255/240 OC/A/N/255/240 OC+/N/255/240
11.	Entry guide		1 [pair]			SLMI, SLMA		
12.	End cap to window frame connector		2 [pcs.]			LPB-RO		
13.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSB/R		
14.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSD		
15.	Galvanized screw 4,2 x 16 mm		12 [pcs.]			WKR/Zn/S/4,2x16		
16.	Galvanized screw 4,2 x 25 mm					WKR/Zn/S/4,2x25		
	Revision from the front		22 [pcs.]	24 [pcs.]	28 [pcs.]			
Optional elements								
17.	Mask for the end cap		2 [pcs.]			NPB/230/170	NPB/230/210	NPB/255/240
18.	Galvanized screw 4 x 8 mm		2 [pcs.]			WKR/Zn/W/4x8		
19.	Galvanized screw 4 x 16 mm		2 [pcs.]			WKR/Zn/W/4x16		

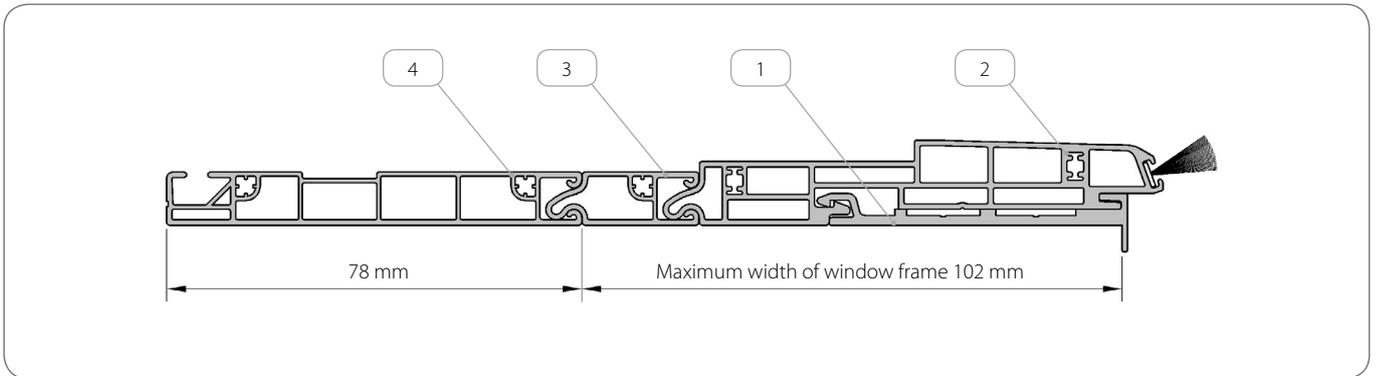
Box SKT Opoterm with PSBA and PSBO and WSD



	Name of the component	Length	Quantity			Catalogue code		
			SKT230/170	SKT230/210	SKT255/240	SKT230/170	SKT230/210	SKT255/240
1.	End cap		1 [pair]			PB/230/170	PB/230/210	PB/255/240
2.	Thermal insulation for end cap		1 [pair]			OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
3.	SKT box - top profile	A-20 [mm]	1 [pcs.]			PSG/230		PSG/255
4.	Aluminium shutter box side profile	A-20 [mm]	1 [pcs.]			PSBA/170	PSBA/210	PSBA/240
5.	Oval shutter box side profile	A-20 [mm]	1 [pcs.]			PSBO/170	PSBO/210	PSBO/240
6.	Box adapting profile	A-20 [mm]	1 [pcs.]			PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
7.	SKT box - base steel profile reinforcement	A-20 [mm]	1 [pcs.]			PSDW		
8.	Shutter box base revision profile	A-20 [mm]	1 [pcs.]			PSRD/100		PSRD/125
9.	Box snap profile	A-20 [mm]	1 [pcs.]			PSZ		
10.	Thermal insulation for SKT box	A-89 [mm]	1 [set]			OC/A/S/230/170 OC/A/N/230/170	OC/A/S/230/210 OC/A/N/230/210 OC+/N/230/210	OC/A/S/255/240 OC/A/N/255/240 OC+/N/255/240
11.	Bottom steel reinforcement	A-20 [mm]	1 [pcs.]			WSD		
12.	Entry guide		1 [pair]			SLMI, SLMA		
13.	End cap to window frame connector		2 [pcs.]			LPB-RO		
14.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSB/R		
15.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSD		
16.	Galvanized screw 4,2 x 16 mm		12 [pcs.]			WKR/Zn/S/4,2x16		
17.	Galvanized screw 4,2 x 25 mm					WKR/Zn/S/4,2x25		
	Revision from the front		22 [pcs.]	24 [pcs.]	28 [pcs.]			
Optional elements								
18.	Mask for the end cap		2 [pcs.]			NPB/230/170	NPB/230/210	NPB/255/240
19.	Galvanized screw 4 x 8 mm		2 [pcs.]			WKR/Zn/W/4x8		
20.	Galvanized screw 4 x 16 mm		2 [pcs.]			WKR/Zn/W/4x16		

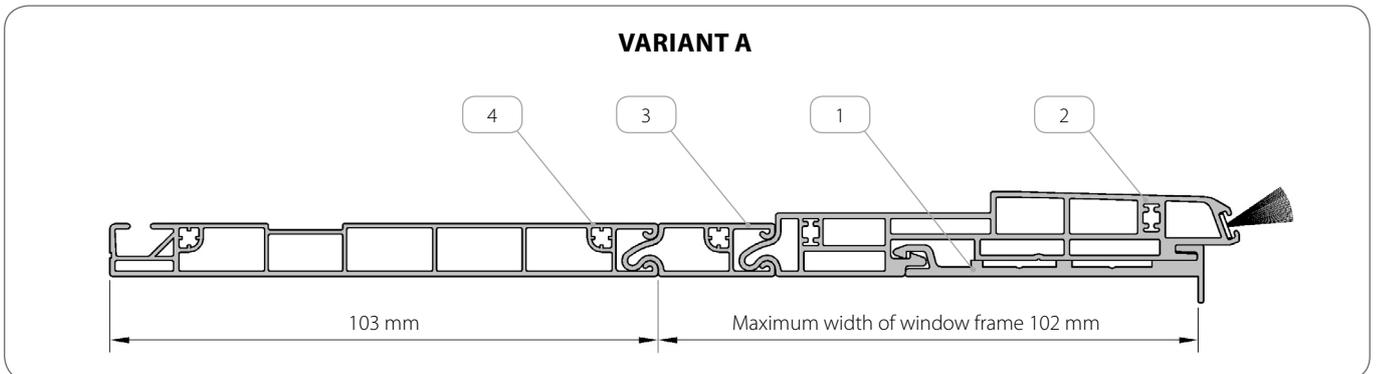
7.3.1.2. Application of the extended profile

For shutter boxes SKT 230/170 and SKT 230/210



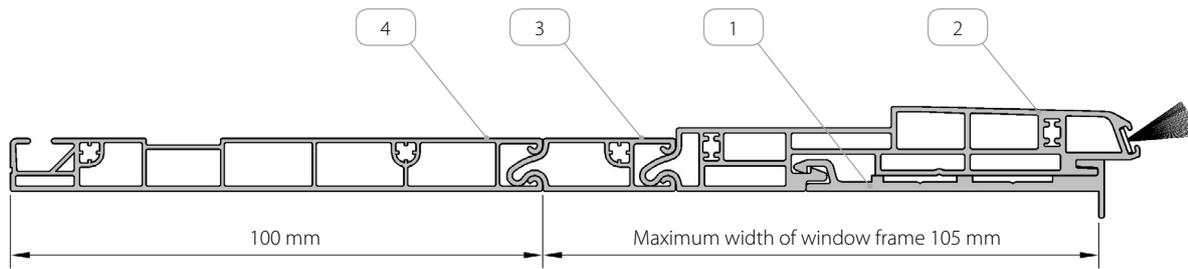
	Name of the component	Length	Quantity		Catalogue code	
			SKT230/170	SKT230/210	SKT230/170	SKT230/210
1.	Box adapting profile	A-20 [mm]	1 [pcs.]		PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2	
2.	SKT box - base profile	A-20 [mm]	1 [pcs.]		PSD, PSDW	
3.	SKT box - base extended profile		1 [pcs.]		PSPD/22	
4.	Shutter box base revision profile	A-20 [mm]	1 [pcs.]		PSRD/MKT/78	
5.	Galvanized screw 4,2 x 25 mm		26 [pcs.]	30 [pcs.]	WKR/Zn/S/4,2x25	
	Revision from the bottom					

For roller shutter box SKT 255/240

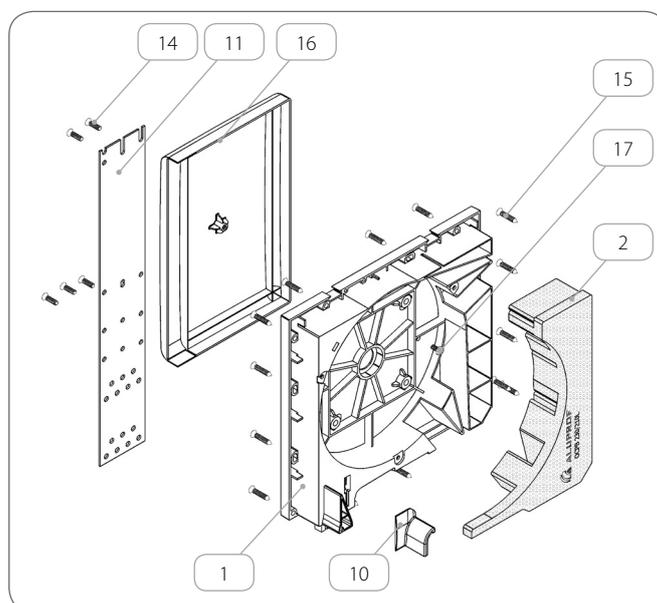
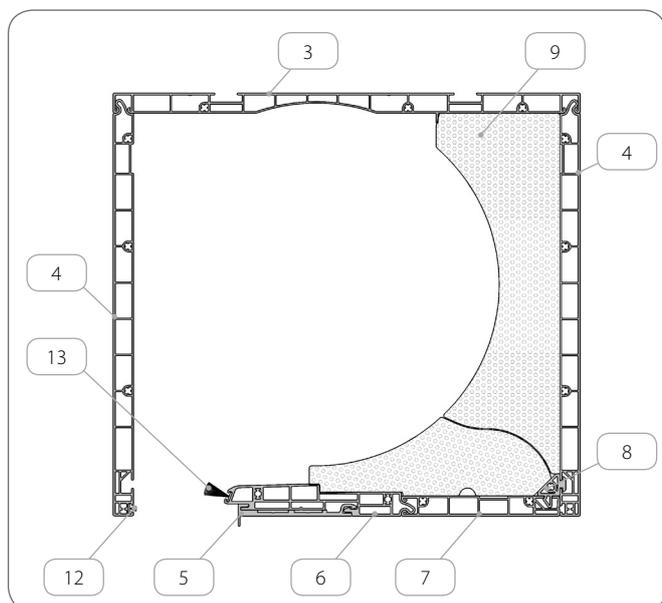


	Name of the component	Length	Quantity		Catalogue code	
			SKT255/240	SKT255/240	SKT255/240	SKT255/240
1.	Box adapting profile	A-20 [mm]	1 [pcs.]		PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2	
2.	SKT box - base profile	A-20 [mm]	1 [pcs.]		PSD, PSDW	
3.	SKT box - base extended profile		1 [pcs.]		PSPD/22	
4.	Shutter box base revision profile	A-20 [mm]	1 [pcs.]		PSRD/MKT/103	
5.	Galvanized screw 4,2 x 25 mm		32 [pcs.]		WKR/Zn/S/4,2x25	
	Revision from the bottom					

VARIANT B

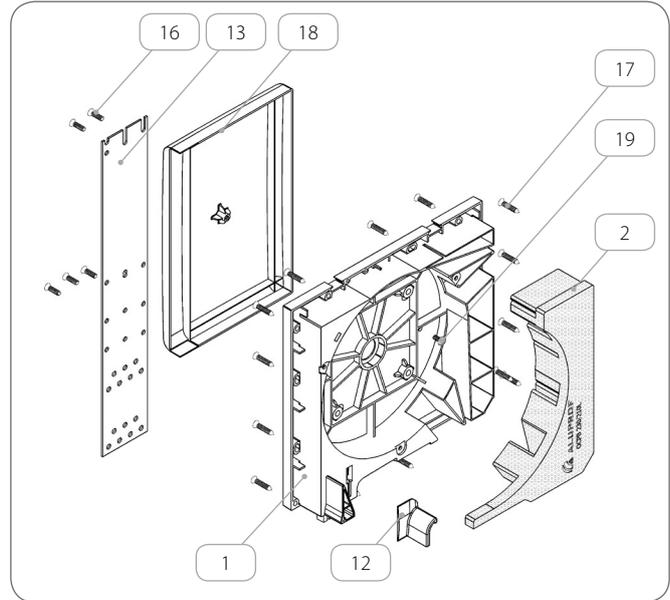
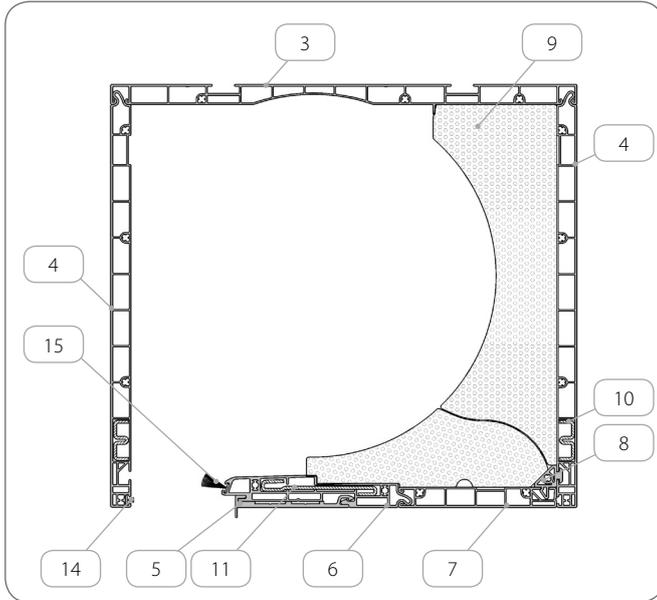


	Name of the component	Length	Quantity	Catalogue code
1.	Box adapting profile	A-20 [mm]	1 [pcs.]	PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2
2.	SKT box - base profile	A-20 [mm]	1 [pcs.]	PSD, PSDW
3.	SKT box - base extended profile		1 [pcs.]	PSPD/25
4.	Shutter box base revision profile	A-20 [mm]	1 [pcs.]	PSRD/100
5.	Galvanized screw 4,2 x 25 mm		32 [pcs.]	WKR/Zn/S/4,2x25
	Revision from the bottom			

7.3.2. SKT + MKT
7.3.2.1. Cutting specification and list of components for a single roller shutter
Box SKT + MKT


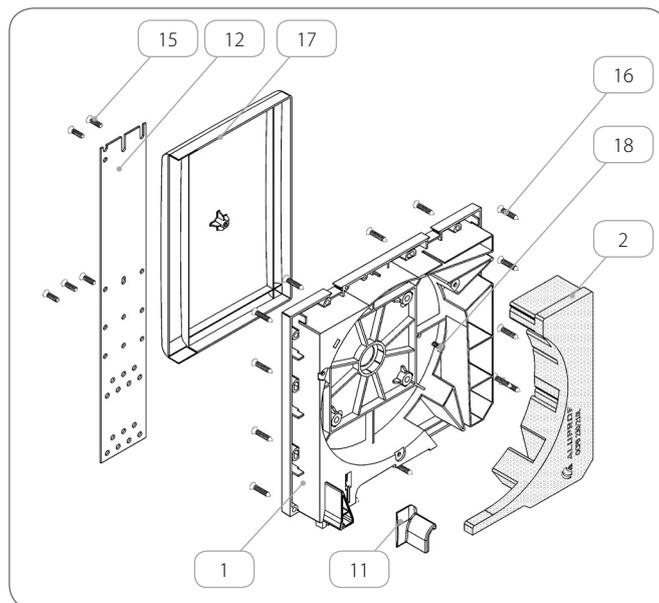
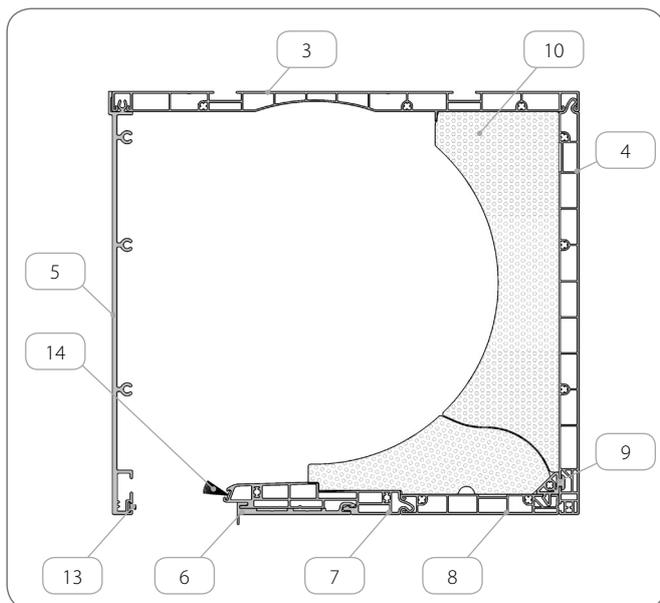
	Name of the component	Length	Quantity			Catalogue code		
			SKT230/170	SKT230/210	SKT255/240	SKT230/170	SKT230/210	SKT255/240
1.	End cap for shutter box SKT with MKT		1 [pair]			PBM/230/170	PBM/230/210	PBM/255/240
2.	Thermal insulation for end cap		1 [pair]			OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
3.	SKT box - top profile	A-20 [mm]	1 [pcs.]			PSG/230		PSG/255
4.	SKT box - side profile	A-20 [mm]	2 [pcs.]			PSB/170	PSB/210	PSB/240
5.	Box adapting profile	A-20 [mm]	1 [pcs.]			PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
6.	SKT box - base profile	A-20 [mm]	1 [pcs.]			PSD		
7.	Shutter box base revision profile	A-20 [mm]	1 [pcs.]			PSRD/MKT/78		PSRD/MKT/103
8.	Box snap profile	A-20 [mm]	1 [pcs.]			PSZ		
9.	Thermal insulation for SKT box	A-89 [mm]	1 [set]			OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240
10.	Entry guide		1 [pair]			SLMI, SLMA		
11.	End cap to window frame connector		2 [pcs.]			LPB-RO		
12.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSB/M		
13.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSD		
14.	Galvanized screw 4,2 x 16 mm		12 [pcs.]	10 [pcs.]	12 [pcs.]	WKR/Zn/S/4,2x16		
15.	Galvanized screw 4,2 x 25 mm					WKR/Zn/S/4,2x25		
	Revision from the bottom		24 [pcs.]	28 [pcs.]	30 [pcs.]			
	Revision from the front		22 [pcs.]	24 [pcs.]	26 [pcs.]			
Optional elements								
16.	Mask for the end cap		2 [pcs.]			NPB/230/170	NPB/230/210	NPB/255/240
17.	Galvanized screw 4 x 8 mm		2 [pcs.]			WKR/Zn/W/4x8		

Box SKT + MKT with WSB and WSD



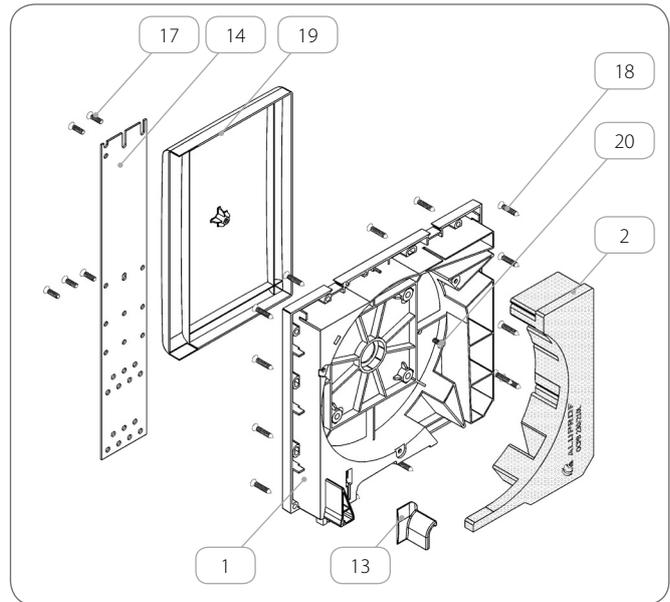
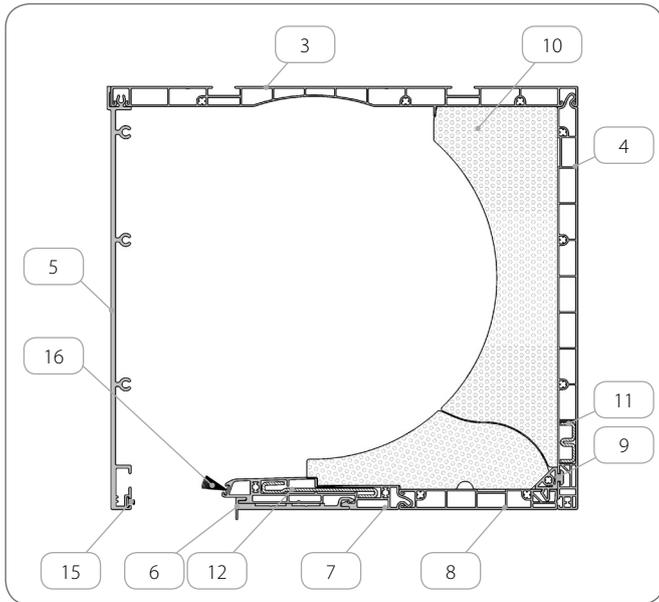
	Name of the component	Length	Quantity			Catalogue code		
			SKT230/170	SKT230/210	SKT255/240	SKT230/170	SKT230/210	SKT255/240
1.	End cap for shutter box SKT with MKT		1 [pair]			PBM/230/170	PBM/230/210	PBM/255/240
2.	Thermal insulation for end cap		1 [pair]			OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
3.	SKT box - top profile	A-20 [mm]	1 [pcs.]			PSG/230		PSG/255
4.	SKT box - side profile	A-20 [mm]	2 [pcs.]			PSB/170	PSB/210	PSB/240
5.	Box adapting profile	A-20 [mm]	1 [pcs.]			PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
6.	SKT box - base steel profile reinforcement	A-20 [mm]	1 [pcs.]			PSDW		
7.	Shutter box base revision profile	A-20 [mm]	1 [pcs.]			PSRD/MKT/78		PSRD/MKT/103
8.	Box snap profile	A-20 [mm]	1 [pcs.]			PSZ		
9.	Thermal insulation for SKT box	A-89 [mm]	1 [set]			OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240
10.	Side steel reinforcement	A-20 [mm]	2 [pcs.]			WSB		
11.	Bottom steel reinforcement	A-20 [mm]	1 [pcs.]			WSD		
12.	Entry guide		1 [pair]			SLMI, SLMA		
13.	End cap to window frame connector		2 [pcs.]			LPB-RO		
14.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSB/M		
15.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSD		
16.	Galvanized screw 4,2 x 16 mm		12 [pcs.]	10 [pcs.]	12 [pcs.]	WKR/Zn/S/4,2x16		
17.	Galvanized screw 4,2 x 25 mm					WKR/Zn/S/4,2x25		
	Revision from the bottom		24 [pcs.]	28 [pcs.]	30 [pcs.]			
	Revision from the front		22 [pcs.]	24 [pcs.]	26 [pcs.]			
Optional elements								
18.	Mask for the end cap		2 [pcs.]			NPB/230/170	NPB/230/210	NPB/255/240
19.	Galvanized screw 4 x 8 mm		2 [pcs.]			WKR/Zn/W/4x8		

Box SKT + MKT with PSBA



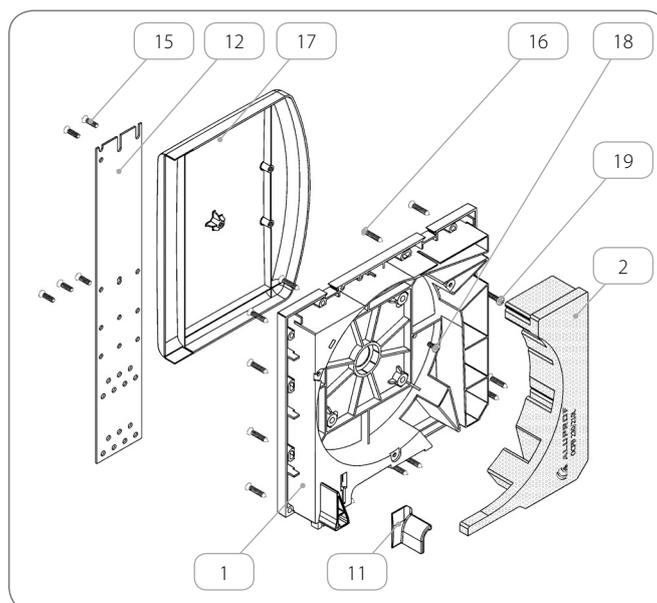
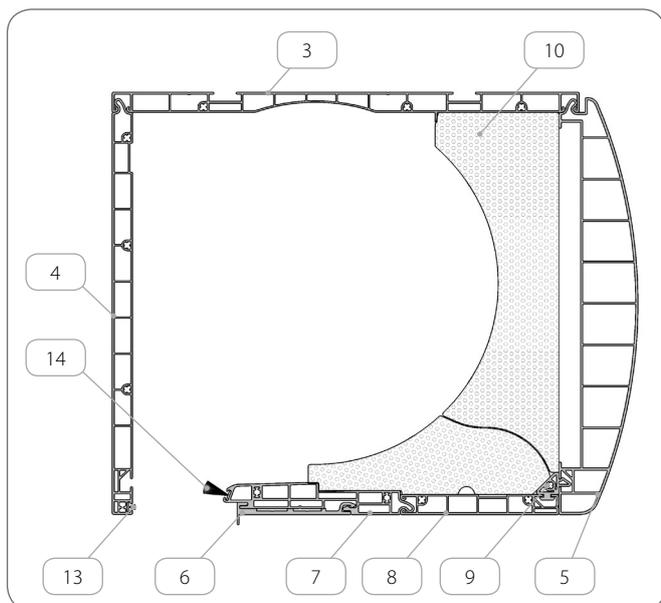
	Name of the component	Length	Quantity			Catalogue code		
			SKT230/170	SKT230/210	SKT255/240	SKT230/170	SKT230/210	SKT255/240
1.	End cap for shutter box SKT with MKT		1 [pair]			PBM/230/170	PBM/230/210	PBM/255/240
2.	Thermal insulation for end cap		1 [pair]			OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
3.	SKT box - top profile	A-20 [mm]	1 [pcs.]			PSG/230		PSG/255
4.	SKT box - side profile	A-20 [mm]	1 [pcs.]			PSB/170	PSB/210	PSB/240
5.	Aluminium shutter box side profile	A-20 [mm]	1 [pcs.]			PSBA/170	PSBA/210	PSBA/240
6.	Box adapting profile	A-20 [mm]	1 [pcs.]			PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
7.	SKT box - base profile	A-20 [mm]	1 [pcs.]			PSD		
8.	Shutter box base revision profile	A-20 [mm]	1 [pcs.]			PSRD/MKT/78		PSRD/MKT/103
9.	Box snap profile	A-20 [mm]	1 [pcs.]			PSZ		
10.	Thermal insulation for SKT box	A-89 [mm]	1 [set]			OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240
11.	Entry guide		1 [pair]			SLMI, SLMA		
12.	End cap to window frame connector		2 [pcs.]			LPB-RO		
13.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSB/M		
14.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSD		
15.	Galvanized screw 4,2 x 16 mm		12 [pcs.]	10 [pcs.]	12 [pcs.]	WKR/Zn/S/4,2x16		
16.	Galvanized screw 4,2 x 25 mm					WKR/Zn/S/4,2x25		
	Revision from the bottom		24 [pcs.]	28 [pcs.]	30 [pcs.]			
	Revision from the front		22 [pcs.]	24 [pcs.]	26 [pcs.]			
Optional elements								
17.	Mask for the end cap		2 [pcs.]			NPB/230/170	NPB/230/210	NPB/255/240
18.	Galvanized screw 4 x 8 mm		2 [pcs.]			WKR/Zn/W/4x8		

Box SKT + MKT with PSBA and WSB and WSD



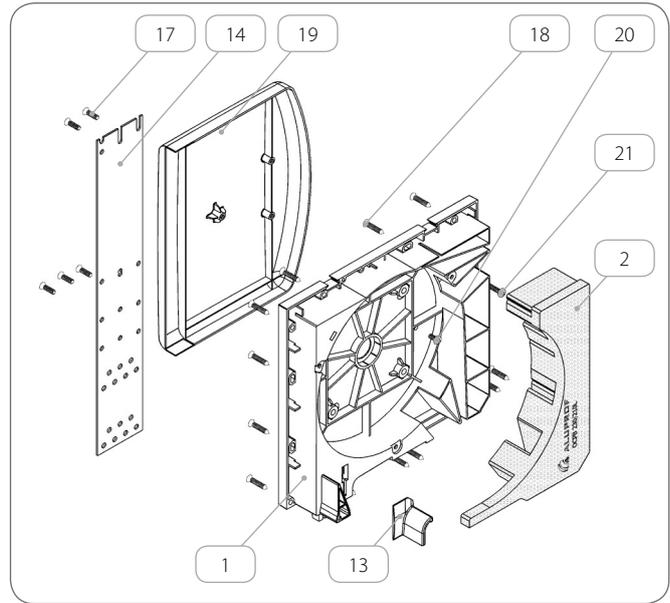
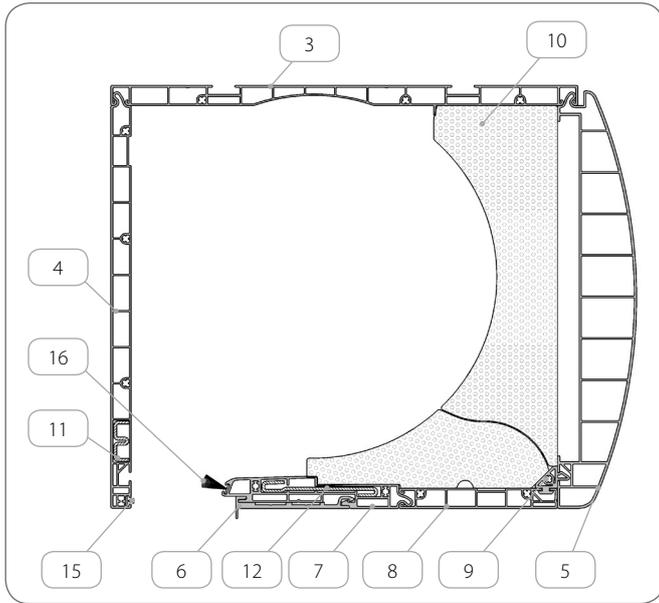
	Name of the component	Length	Quantity			Catalogue code		
			SKT230/170	SKT230/210	SKT255/240	SKT230/170	SKT230/210	SKT255/240
1.	End cap for shutter box SKT with MKT		1 [pair]			PBM/230/170	PBM/230/210	PBM/255/240
2.	Thermal insulation for end cap		1 [pair]			OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
3.	SKT box - top profile	A-20 [mm]	1 [pcs.]			PSG/230		PSG/255
4.	SKT box - side profile	A-20 [mm]	1 [pcs.]			PSB/170	PSB/210	PSB/240
5.	Aluminium shutter box side profile	A-20 [mm]	1 [pcs.]			PSBA/170	PSBA/210	PSBA/240
6.	Box adapting profile	A-20 [mm]	1 [pcs.]			PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
7.	SKT box - base steel profile reinforcement	A-20 [mm]	1 [pcs.]			PSDW		
8.	Shutter box base revision profile	A-20 [mm]	1 [pcs.]			PSRD/MKT/78		PSRD/MKT/103
9.	Box snap profile	A-20 [mm]	1 [pcs.]			PSZ		
10.	Thermal insulation for SKT box	A-89 [mm]	1 [set]			OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240
11.	Side steel reinforcement	A-20 [mm]	1 [pcs.]			WSB		
12.	Bottom steel reinforcement	A-20 [mm]	1 [pcs.]			WSD		
13.	Entry guide		1 [pair]			SLMI, SLMA		
14.	End cap to window frame connector		2 [pcs.]			LPB-RO		
15.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSB/M		
16.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSD		
17.	Galvanized screw 4,2 x 16 mm		12 [pcs.]	10 [pcs.]	12 [pcs.]	WKR/Zn/S/4,2x16		
18.	Galvanized screw 4,2 x 25 mm					WKR/Zn/S/4,2x25		
	Revision from the bottom		24 [pcs.]	28 [pcs.]	30 [pcs.]			
	Revision from the front		22 [pcs.]	24 [pcs.]	26 [pcs.]			
Optional elements								
19.	Mask for the end cap		2 [pcs.]			NPB/230/170	NPB/230/210	NPB/255/240
20.	Galvanized screw 4 x 8 mm		2 [pcs.]			WKR/Zn/W/4x8		

Box SKT + MKT with PSBO



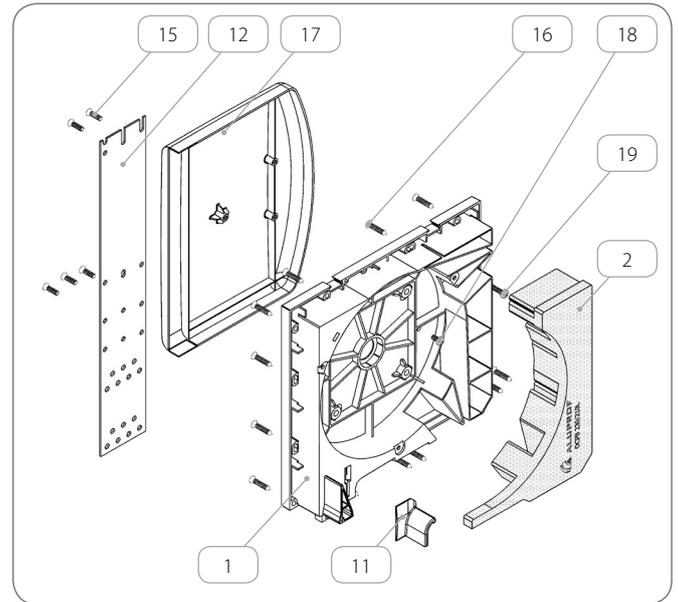
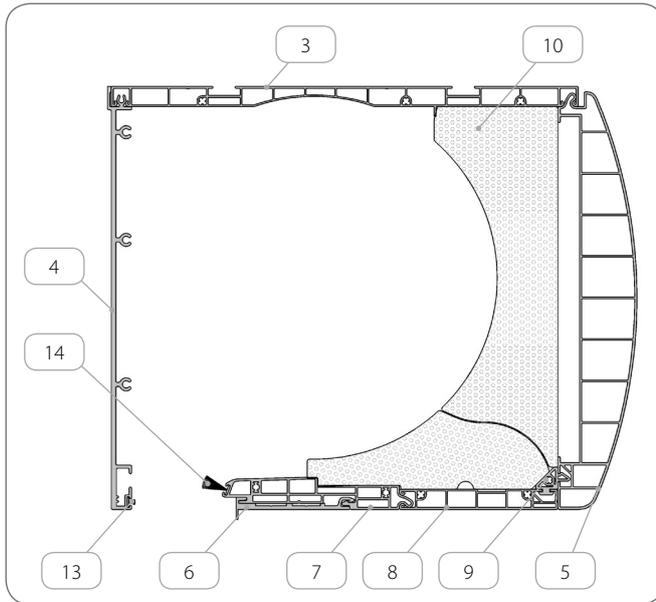
	Name of the component	Length	Quantity			Catalogue code		
			SKT230/170	SKT230/210	SKT255/240	SKT230/170	SKT230/210	SKT255/240
1.	End cap for shutter box SKT with MKT		1 [pair]			PBM/230/170	PBM/230/210	PBM/255/240
2.	Thermal insulation for end cap		1 [pair]			OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
3.	SKT box - top profile	A-20 [mm]	1 [pcs.]			PSG/230		PSG/255
4.	SKT box - side profile	A-20 [mm]	1 [pcs.]			PSB/170	PSB/210	PSB/240
5.	Oval shutter box side profile	A-20 [mm]	1 [pcs.]			PSBO/170	PSBO/210	PSBO/240
6.	Box adapting profile	A-20 [mm]	1 [pcs.]			PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
7.	SKT box - base profile	A-20 [mm]	1 [pcs.]			PSD		
8.	Shutter box base revision profile	A-20 [mm]	1 [pcs.]			PSRD/MKT/78		PSRD/MKT/103
9.	Box snap profile	A-20 [mm]	1 [pcs.]			PSZ		
10.	Thermal insulation for SKT box	A-89 [mm]	1 [set]			OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240
11.	Entry guide		1 [pair]			SLMI, SLMA		
12.	End cap to window frame connector		2 [pcs.]			LPB-RO		
13.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSB/M		
14.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSD		
15.	Galvanized screw 4,2 x 16 mm		12 [pcs.]	10 [pcs.]	12 [pcs.]	WKR/Zn/S/4,2x16		
16.	Galvanized screw 4,2 x 25 mm					WKR/Zn/S/4,2x25		
	Revision from the front		22 [pcs.]	24 [pcs.]	26 [pcs.]			
Optional elements								
17.	Oval mask for the end cap		2 [pcs.]			NOPB/230/170	NOPB/230/210	NOPB/255/240
18.	Galvanized screw 4 x 8 mm		2 [pcs.]			WKR/Zn/W/4x8		
19.	Galvanized screw 4 x 16 mm		2 [pcs.]			WKR/Zn/W/4x16		

Box SKT + MKT with PSBO and WSB and WSD



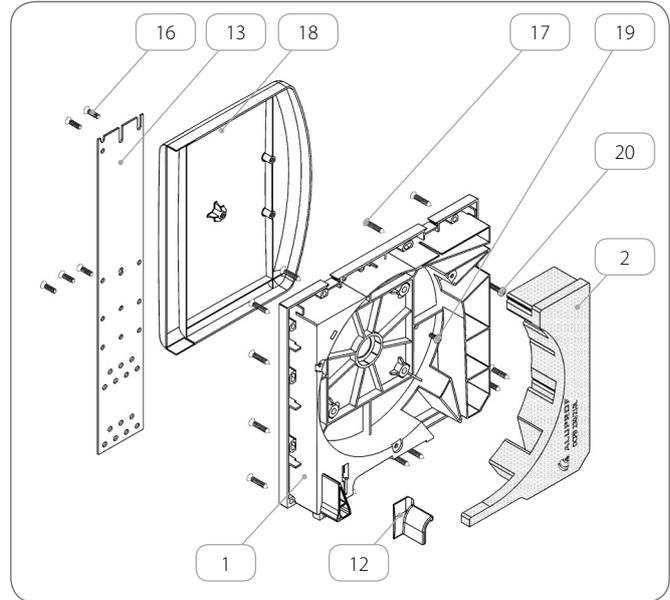
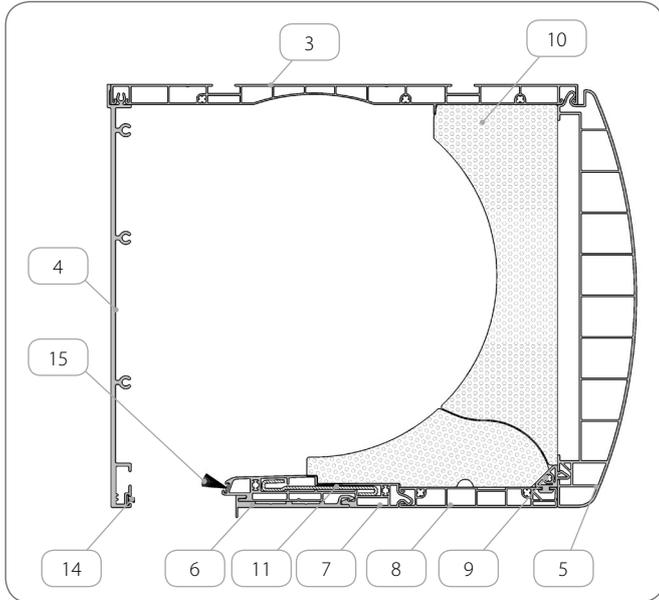
	Name of the component	Length	Quantity			Catalogue code		
			SKT230/170	SKT230/210	SKT255/240	SKT230/170	SKT230/210	SKT255/240
1.	End cap for shutter box SKT with MKT		1 [pair]			PBM/230/170	PBM/230/210	PBM/255/240
2.	Thermal insulation for end cap		1 [pair]			OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
3.	SKT box - top profile	A-20 [mm]	1 [pcs.]			PSG/230		PSG/255
4.	SKT box - side profile	A-20 [mm]	1 [pcs.]			PSB/170	PSB/210	PSB/240
5.	Oval shutter box side profile	A-20 [mm]	1 [pcs.]			PSBO/170	PSBO/210	PSBO/240
6.	Box adapting profile	A-20 [mm]	1 [pcs.]			PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
7.	SKT box - base steel profile reinforcement	A-20 [mm]	1 [pcs.]			PSDW		
8.	Shutter box base revision profile	A-20 [mm]	1 [pcs.]			PSRD/MKT/78		PSRD/MKT/103
9.	Box snap profile	A-20 [mm]	1 [pcs.]			PSZ		
10.	Thermal insulation for SKT box	A-89 [mm]	1 [set]			OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240
11.	Side steel reinforcement	A-20 [mm]	1 [pcs.]			WSB		
12.	Bottom steel reinforcement	A-20 [mm]	1 [pcs.]			WSD		
13.	Entry guide		1 [pair]			SLMI, SLMA		
14.	End cap to window frame connector		2 [pcs.]			LPB-RO		
15.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSB/M		
16.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSD		
17.	Galvanized screw 4,2 x 16 mm		12 [pcs.]	10 [pcs.]	12 [pcs.]	WKR/Zn/S/4,2x16		
18.	Galvanized screw 4,2 x 25 mm					WKR/Zn/S/4,2x25		
	Revision from the front		22 [pcs.]	24 [pcs.]	26 [pcs.]			
Optional elements								
19.	Oval mask for the end cap		2 [pcs.]			NOPB/230/170	NOPB/230/210	NOPB/255/240
20.	Galvanized screw 4 x 8 mm		2 [pcs.]			WKR/Zn/W/4x8		
21.	Galvanized screw 4 x 16 mm		2 [pcs.]			WKR/Zn/W/4x16		

Box SKT + MKT with PSBA and PSBO



	Name of the component	Length	Quantity			Catalogue code		
			SKT230/170	SKT230/210	SKT255/240	SKT230/170	SKT230/210	SKT255/240
1.	End cap for shutter box SKT with MKT		1 [pair]			PBM/230/170	PBM/230/210	PBM/255/240
2.	Thermal insulation for end cap		1 [pair]			OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
3.	SKT box - top profile	A-20 [mm]	1 [pcs.]			PSG/230		PSG/255
4.	Aluminium shutter box side profile	A-20 [mm]	1 [pcs.]			PSBA/170	PSBA/210	PSBA/240
5.	Oval shutter box side profile	A-20 [mm]	1 [pcs.]			PSBO/170	PSBO/210	PSBO/240
6.	Box adapting profile	A-20 [mm]	1 [pcs.]			PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
7.	SKT box - base profile	A-20 [mm]	1 [pcs.]			PSD		
8.	Shutter box base revision profile	A-20 [mm]	1 [pcs.]			PSRD/MKT/78		PSRD/MKT/103
9.	Box snap profile	A-20 [mm]	1 [pcs.]			PSZ		
10.	Thermal insulation for SKT box	A-89 [mm]	1 [set]			OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240
11.	Entry guide		1 [pair]			SLMI, SLMA		
12.	End cap to window frame connector		2 [pcs.]			LPB-RO		
13.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSB/M		
14.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSD		
15.	Galvanized screw 4,2 x 16 mm		12 [pcs.]	10 [pcs.]	12 [pcs.]	WKR/Zn/S/4,2x16		
16.	Galvanized screw 4,2 x 25 mm					WKR/Zn/S/4,2x25		
	Revision from the front		22 [pcs.]	24 [pcs.]	26 [pcs.]			
Optional elements								
17.	Oval mask for the end cap		2 [pcs.]			NOPB/230/170	NOPB/230/210	NOPB/255/240
18.	Galvanized screw 4 x 8 mm		2 [pcs.]			WKR/Zn/W/4x8		
19.	Galvanized screw 4 x 16 mm		2 [pcs.]			WKR/Zn/W/4x16		

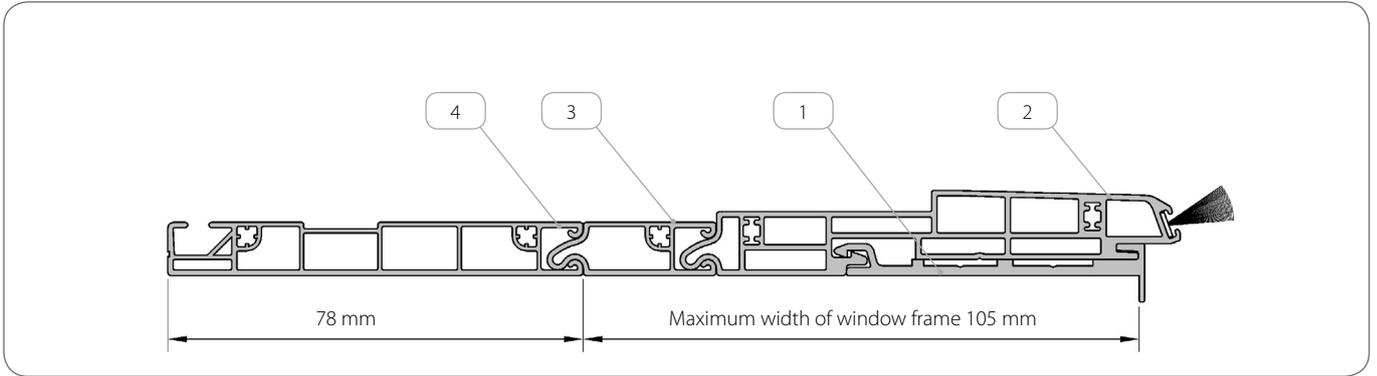
Box SKT + MKT with PSBA and PSBO and WSD



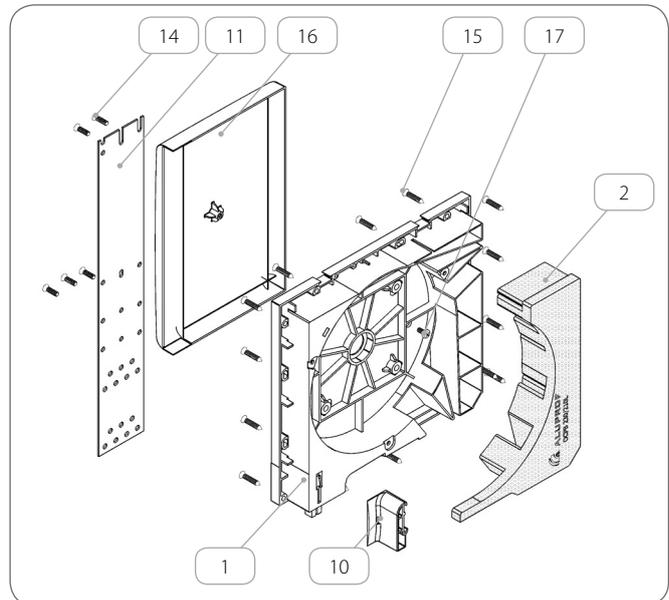
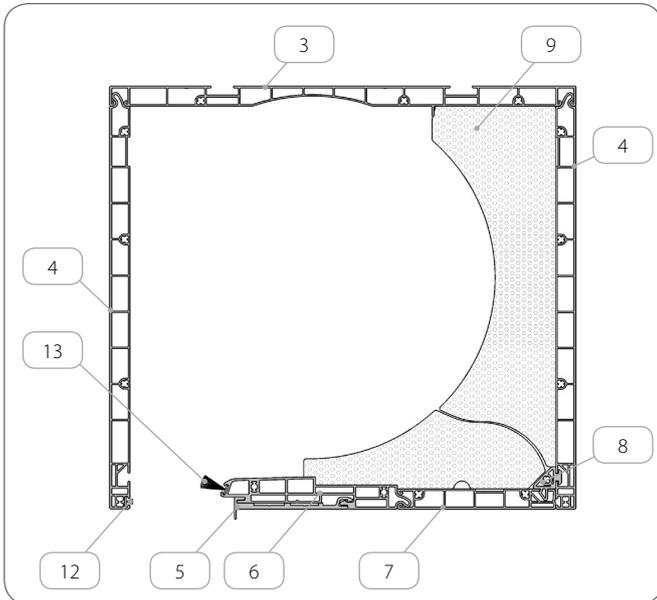
	Name of the component	Length	Quantity			Catalogue code		
			SKT230/170	SKT230/210	SKT255/240	SKT230/170	SKT230/210	SKT255/240
1.	End cap for shutter box SKT with MKT		1 [pair]			PBM/230/170	PBM/230/210	PBM/255/240
2.	Thermal insulation for end cap		1 [pair]			OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
3.	SKT box - top profile	A-20 [mm]	1 [pcs.]			PSG/230		PSG/255
4.	Aluminium shutter box side profile	A-20 [mm]	1 [pcs.]			PSBA/170	PSBA/210	PSBA/240
5.	Oval shutter box side profile	A-20 [mm]	1 [pcs.]			PSBO/170	PSBO/210	PSBO/240
6.	Box adapting profile	A-20 [mm]	1 [pcs.]			PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
7.	SKT box - base steel profile reinforcement	A-20 [mm]	1 [pcs.]			PSDW		
8.	Shutter box base revision profile	A-20 [mm]	1 [pcs.]			PSRD/MKT/78		PSRD/MKT/103
9.	Box snap profile	A-20 [mm]	1 [pcs.]			PSZ		
10.	Thermal insulation for SKT box	A-89 [mm]	1 [set]			OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240
11.	Bottom steel reinforcement	A-20 [mm]	1 [pcs.]			WSD		
12.	Entry guide		1 [pair]			SLMI, SLMA		
13.	End cap to window frame connector		2 [pcs.]			LPB-RO		
14.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSB/M		
15.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSD		
16.	Galvanized screw 4,2 x 16 mm		12 [pcs.]	10 [pcs.]	12 [pcs.]	WKR/Zn/S/4,2x16		
17.	Galvanized screw 4,2 x 25 mm					WKR/Zn/S/4,2x25		
	Revision from the front		22 [pcs.]	24 [pcs.]	26 [pcs.]			
Optional elements								
18.	Oval mask for the end cap		2 [pcs.]			NOPB/230/170	NOPB/230/210	NOPB/255/240
19.	Galvanized screw 4 x 8 mm		2 [pcs.]			WKR/Zn/W/4x8		
20.	Galvanized screw 4 x 16 mm		2 [pcs.]			WKR/Zn/W/4x16		

7.3.2.2. Application of the extended profile

For roller shutter box SKT 255/240 + MKT

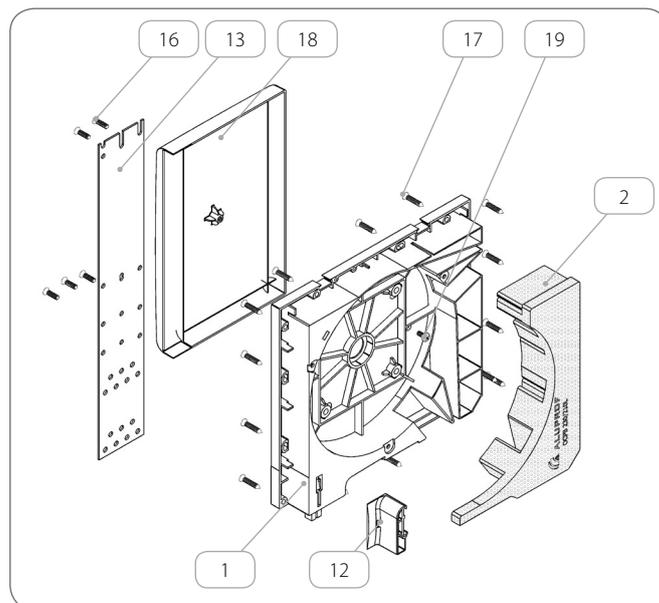
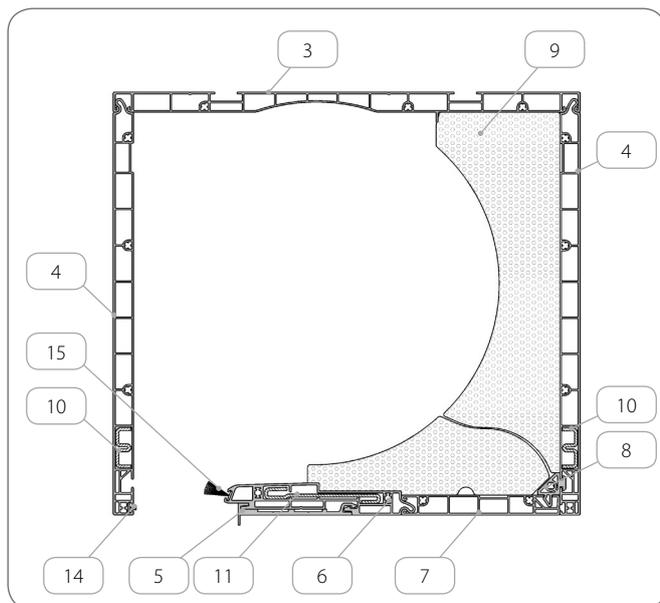


	Name of the component	Length	Quantity	Catalogue code
1.	Box adapting profile	A-20 [mm]	1 [pcs.]	PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2
2.	SKT box - base profile	A-20 [mm]	1 [pcs.]	PSD, PSDW
3.	SKT box - base extended profile		1 [pcs.]	PSPD/25
4.	Shutter box base revision profile	A-20 [mm]	1 [pcs.]	PSRD/MKT/78
5.	Galvanized screw 4,2 x 25 mm		32 [pcs.]	WKR/Zn/S/4,2x25
	Revision from the bottom			

7.3.3. SKT Nova
7.3.3.1. Cutting specification and list of components for a single roller shutter
Box SKT Nova


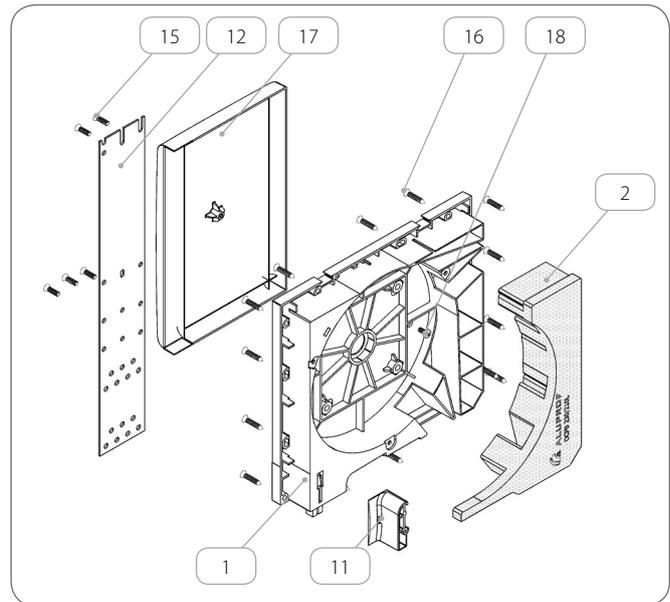
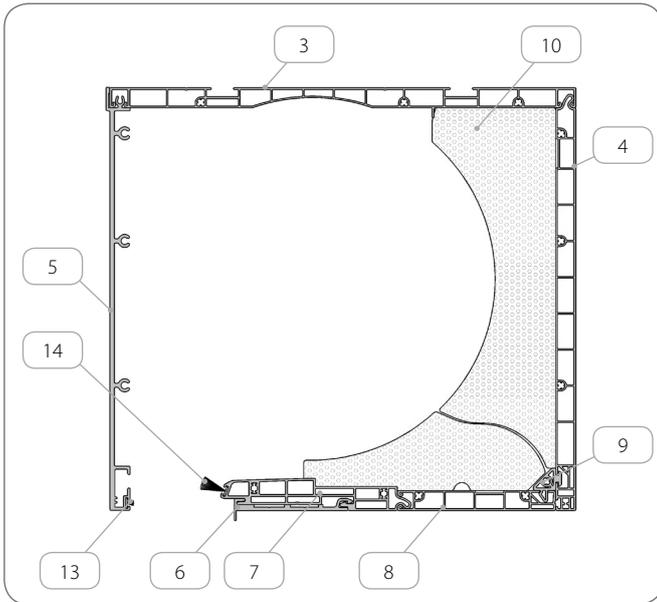
	Name of the component	Length	Quantity			Catalogue code		
			SKT230/170	SKT230/210	SKT255/240	SKT230/170	SKT230/210	SKT255/240
1.	End cap for shutter box SKT with MKT		1 [pair]			PBM/W/230/170	PBM/W/230/210	PBM/W/255/240
2.	Thermal insulation for end cap		1 [pair]			OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
3.	SKT box - top profile	A-20 [mm]	1 [pcs.]			PSG/230		PSG/255
4.	SKT box - side profile	A-20 [mm]	2 [pcs.]			PSB/170	PSB/210	PSB/240
5.	Box adapting profile	A-20 [mm]	1 [pcs.]			PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
6.	SKT box - base profile	A-20 [mm]	1 [pcs.]			PSD		
7.	Shutter box base revision profile	A-20 [mm]	1 [pcs.]			PSRD/MKT/78		PSRD/MKT/103
8.	Box snap profile	A-20 [mm]	1 [pcs.]			PSZ		
9.	Thermal insulation for SKT box	A-89 [mm]	1 [set]			OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240
10.	Entry guide		1 [pair]			SLMI/A, SLMA/A		
11.	End cap to window frame connector		2 [pcs.]			LPB-RO		
12.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSB/R		
13.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSD		
14.	Galvanized screw 4,2 x 16 mm		12 [pcs.]	10 [pcs.]	12 [pcs.]	WKR/Zn/S/4,2x16		
15.	Galvanized screw 4,2 x 25 mm					WKR/Zn/S/4,2x25		
	Revision from the bottom		24 [pcs.]	28 [pcs.]	30 [pcs.]			
	Revision from the front		22 [pcs.]	24 [pcs.]	26 [pcs.]			
Optional elements								
16.	Mask for the end cap		2 [pcs.]			NPB/230/170	NPB/230/210	NPB/255/240
17.	Galvanized screw 4 x 8 mm		2 [pcs.]			WKR/Zn/W/4x8		

Box SKT Nova with WSB and WSD



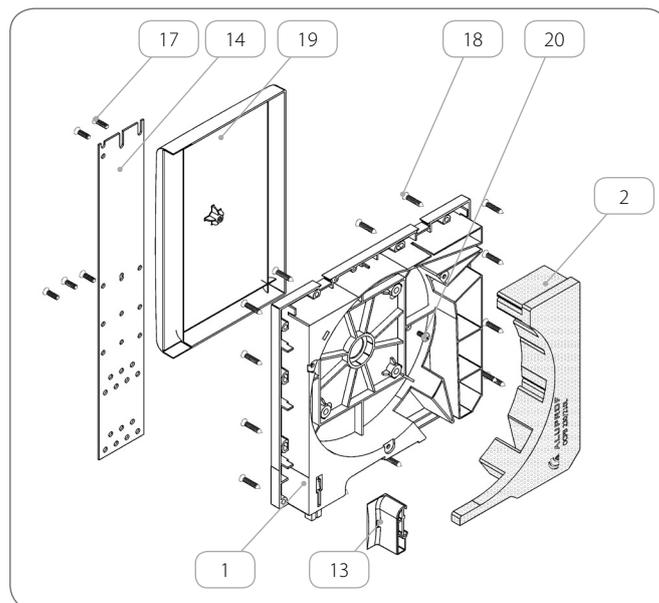
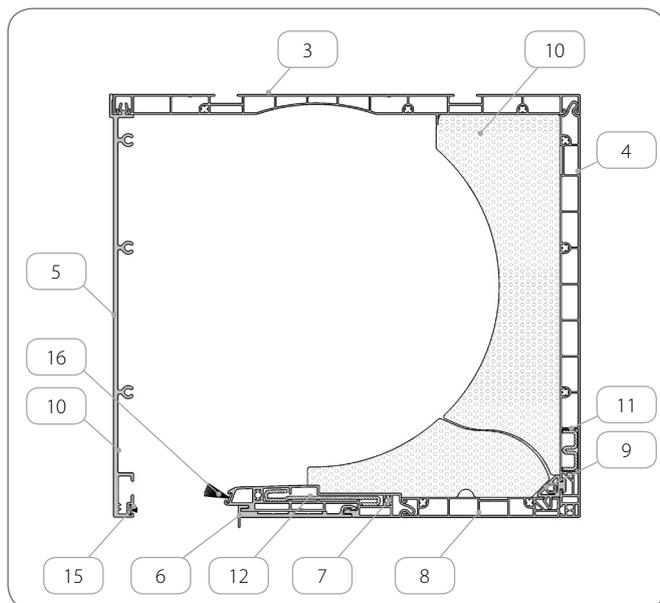
	Name of the component	Length	Quantity			Catalogue code		
			SKT230/170	SKT230/210	SKT255/240	SKT230/170	SKT230/210	SKT255/240
1.	End cap for shutter box SKT with MKT		1 [pair]			PBM/W/230/170	PBM/W/230/210	PBM/W/255/240
2.	Thermal insulation for end cap		1 [pair]			OCPB/S/230/170	OCPB/S/230/210	OCPB/S/255/240
						OCPB/N/230/170	OCPB/N/230/210	OCPB/N/255/240
3.	SKT box - top profile	A-20 [mm]	1 [pcs.]			PSG/230		PSG/255
4.	SKT box - side profile	A-20 [mm]	2 [pcs.]			PSB/170	PSB/210	PSB/240
5.	Box adapting profile	A-20 [mm]	1 [pcs.]			PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
6.	SKT box - base steel profile reinforcement	A-20 [mm]	1 [pcs.]			PSDW		
7.	Shutter box base revision profile	A-20 [mm]	1 [pcs.]			PSRD/MKT/78		PSRD/MKT/103
8.	Box snap profile	A-20 [mm]	1 [pcs.]			PSZ		
9.	Thermal insulation for SKT box	A-89 [mm]	1 [set]			OCM/A/S/230/170	OCM/A/S/230/210	OCM/A/S/255/240
						OCM/A/N/230/170	OCM/A/N/230/210	OCM/A/N/255/240
10.	Side steel reinforcement	A-20 [mm]	2 [pcs.]			WSB		
11.	Bottom steel reinforcement	A-20 [mm]	1 [pcs.]			WSD		
12.	Entry guide		1 [pair]			SLMI/A, SLMA/A		
13.	End cap to window frame connector		2 [pcs.]			LPB-RO		
14.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSB/R		
15.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSD		
16.	Galvanized screw 4,2 x 16 mm		12 [pcs.]	10 [pcs.]	12 [pcs.]	WKR/Zn/S/4,2x16		
17.	Galvanized screw 4,2 x 25 mm					WKR/Zn/S/4,2x25		
	Revision from the bottom		24 [pcs.]	28 [pcs.]	30 [pcs.]			
	Revision from the front		22 [pcs.]	24 [pcs.]	26 [pcs.]			
Optional elements								
18.	Mask for the end cap		2 [pcs.]			NPB/230/170	NPB/230/210	NPB/255/240
19.	Galvanized screw 4 x 8 mm		2 [pcs.]			WKR/Zn/W/4x8		

Box SKT Nova with PSBA



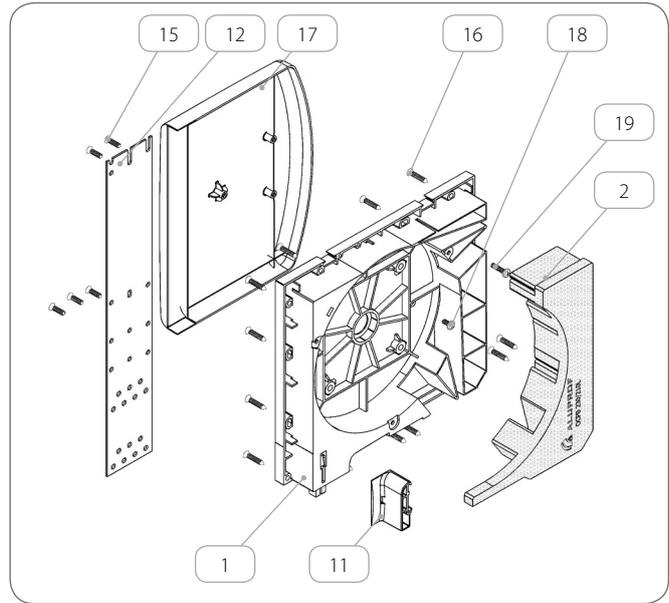
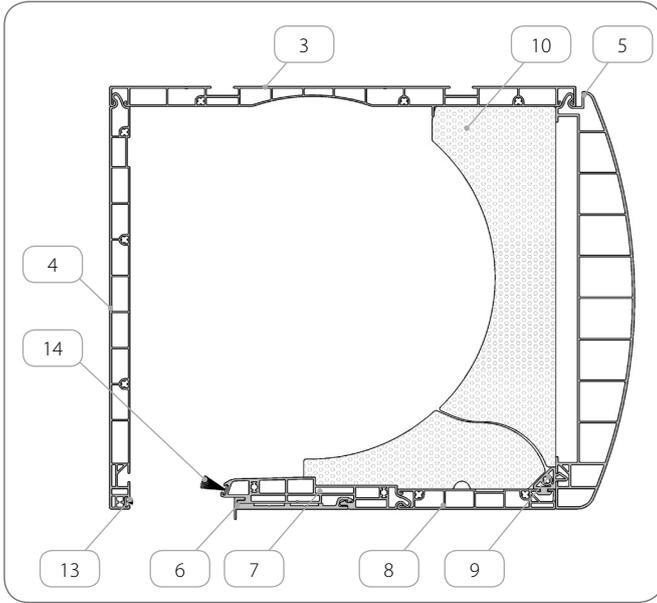
	Name of the component	Length	Quantity			Catalogue code		
			SKT230/170	SKT230/210	SKT255/240	SKT230/170	SKT230/210	SKT255/240
1.	End cap for shutter box SKT with MKT		1 [pair]			PBM/W/230/170	PBM/W/230/210	PBM/W/255/240
2.	Thermal insulation for end cap		1 [pair]			OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
3.	SKT box - top profile	A-20 [mm]	1 [pcs.]			PSG/230		PSG/255
4.	SKT box - side profile	A-20 [mm]	1 [pcs.]			PSB/170	PSB/210	PSB/240
5.	Aluminium shutter box side profile	A-20 [mm]	1 [pcs.]			PSBA/170	PSBA/210	PSBA/240
6.	Box adapting profile	A-20 [mm]	1 [pcs.]			PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
7.	SKT box - base profile	A-20 [mm]	1 [pcs.]			PSD		
8.	Shutter box base revision profile	A-20 [mm]	1 [pcs.]			PSRD/MKT/78		PSRD/MKT/103
9.	Box snap profile	A-20 [mm]	1 [pcs.]			PSZ		
10.	Thermal insulation for SKT box	A-89 [mm]	1 [set]			OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240
11.	Entry guide		1 [pair]			SLMI/A, SLMA/A		
12.	End cap to window frame connector		2 [pcs.]			LPB-RO		
13.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSB/R		
14.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSD		
15.	Galvanized screw 4,2 x 16 mm		12 [pcs.]	10 [pcs.]	12 [pcs.]	WKR/Zn/S/4,2x16		
16.	Galvanized screw 4,2 x 25 mm					WKR/Zn/S/4,2x25		
	Revision from the bottom		24 [pcs.]	28 [pcs.]	30 [pcs.]			
	Revision from the front		22 [pcs.]	24 [pcs.]	26 [pcs.]			
Optional elements								
17.	Mask for the end cap		2 [pcs.]			NPB/230/170	NPB/230/210	NPB/255/240
18.	Galvanized screw 4 x 8 mm		2 [pcs.]			WKR/Zn/W/4x8		

Box SKT Nova with PSBA and WSB and WSD



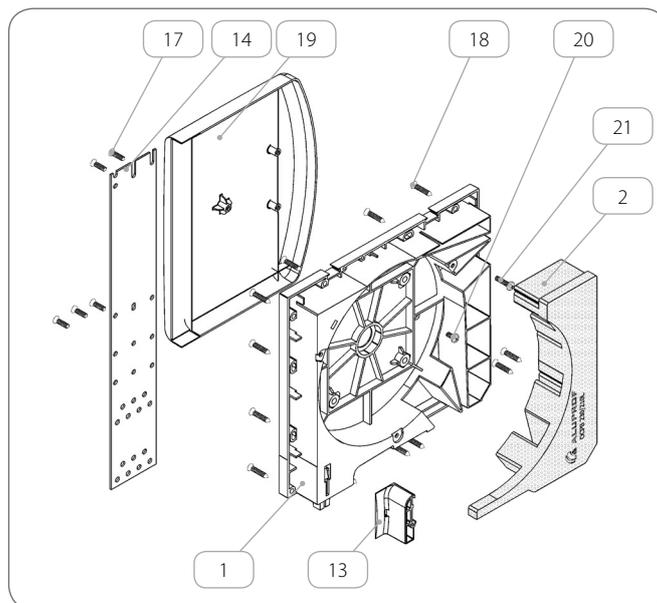
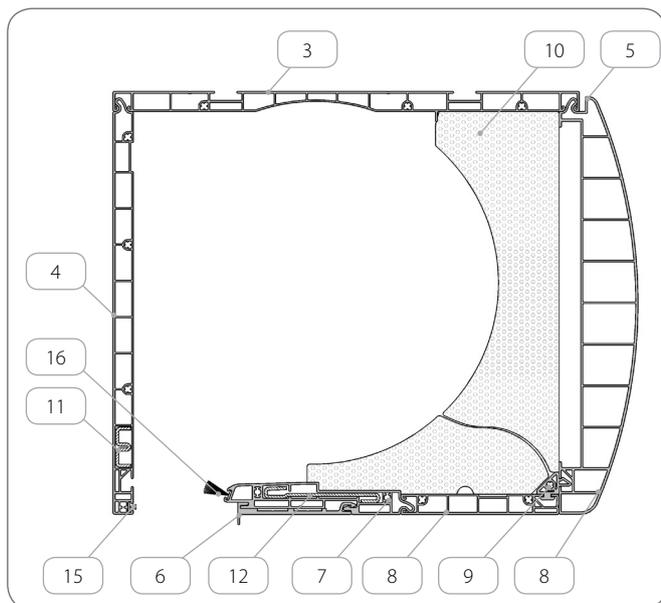
	Name of the component	Length	Quantity			Catalogue code		
			SKT230/170	SKT230/210	SKT255/240	SKT230/170	SKT230/210	SKT255/240
1.	End cap for shutter box SKT with MKT		1 [pair]			PBM/W/230/170	PBM/W/230/210	PBM/W/255/240
2.	Thermal insulation for end cap		1 [pair]			OCPB/S/230/170	OCPB/S/230/210	OCPB/S/255/240
						OCPB/N/230/170	OCPB/N/230/210	OCPB/N/255/240
3.	SKT box - top profile	A-20 [mm]	1 [pcs.]			PSG/230		PSG/255
4.	SKT box - side profile	A-20 [mm]	1 [pcs.]			PSB/170	PSB/210	PSB/240
5.	Aluminium shutter box side profile	A-20 [mm]	1 [pcs.]			PSBA/170	PSBA/210	PSBA/240
6.	Box adapting profile	A-20 [mm]	1 [pcs.]			PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
7.	SKT box - base steel profile reinforcement	A-20 [mm]	1 [pcs.]			PSDW		
8.	Shutter box base revision profile	A-20 [mm]	1 [pcs.]			PSRD/MKT/78		PSRD/MKT/103
9.	Box snap profile	A-20 [mm]	1 [pcs.]			PSZ		
10.	Thermal insulation for SKT box	A-89 [mm]	1 [set]			OCM/A/S/230/170	OCM/A/S/230/210	OCM/A/S/255/240
						OCM/A/N/230/170	OCM/A/N/230/210	OCM/A/N/255/240
11.	Side steel reinforcement	A-20 [mm]	1 [pcs.]			WSB		
12.	Bottom steel reinforcement	A-20 [mm]	1 [pcs.]			WSD		
13.	Entry guide		1 [pair]			SLMI/A, SLMA/A		
14.	End cap to window frame connector		2 [pcs.]			LPB-RO		
15.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSB/R		
16.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSD		
17.	Galvanized screw 4,2 x 16 mm		12 [pcs.]	10 [pcs.]	12 [pcs.]	WKR/Zn/S/4,2x16		
18.	Galvanized screw 4,2 x 25 mm					WKR/Zn/S/4,2x25		
	Revision from the bottom		24 [pcs.]	28 [pcs.]	30 [pcs.]			
	Revision from the front		22 [pcs.]	24 [pcs.]	26 [pcs.]			
Optional elements								
19.	Mask for the end cap		2 [pcs.]			NPB/230/170	NPB/230/210	NPB/255/240
20.	Galvanized screw 4 x 8 mm		2 [pcs.]			WKR/Zn/W/4x8		

Box SKT Nova with PSBO



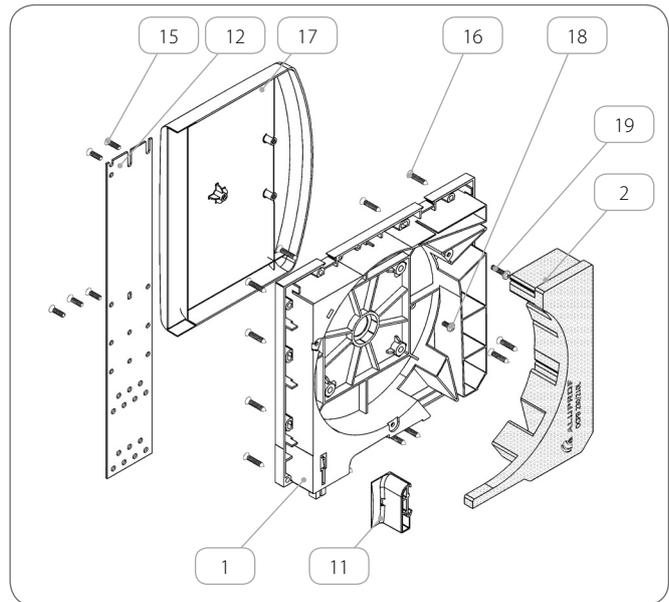
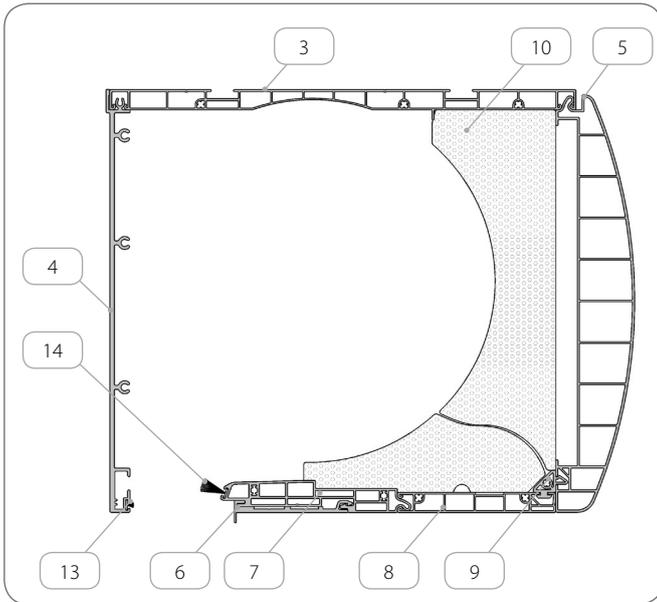
	Name of the component	Length	Quantity			Catalogue code		
			SKT230/170	SKT230/210	SKT255/240	SKT230/170	SKT230/210	SKT255/240
1.	End cap for shutter box SKT with MKT		1 [pair]			PBM/W/230/170	PBM/W/230/210	PBM/W/255/240
2.	Thermal insulation for end cap		1 [pair]			OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
3.	SKT box - top profile	A-20 [mm]	1 [pcs.]			PSG/230		PSG/255
4.	SKT box - side profile	A-20 [mm]	1 [pcs.]			PSB/170	PSB/210	PSB/240
5.	Oval shutter box side profile	A-20 [mm]	1 [pcs.]			PSBO/170	PSBO/210	PSBO/240
6.	Box adapting profile	A-20 [mm]	1 [pcs.]			PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
7.	SKT box - base profile	A-20 [mm]	1 [pcs.]			PSD		
8.	Shutter box base revision profile	A-20 [mm]	1 [pcs.]			PSRD/MKT/78		PSRD/MKT/103
9.	Box snap profile	A-20 [mm]	1 [pcs.]			PSZ		
10.	Thermal insulation for SKT box	A-89 [mm]	1 [set]			OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240
11.	Entry guide		1 [pair]			SLMI/A, SLMA/A		
12.	End cap to window frame connector		2 [pcs.]			LPB-RO		
13.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSB/R		
14.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSD		
15.	Galvanized screw 4,2 x 16 mm		12 [pcs.]	10 [pcs.]	12 [pcs.]	WKR/Zn/S/4,2x16		
16.	Galvanized screw 4,2 x 25 mm		22 [pcs.]	24 [pcs.]	26 [pcs.]	WKR/Zn/S/4,2x25		
17.	Oval mask for the end cap		2 [pcs.]			NOPB/230/170	NOPB/230/210	NOPB/255/240
18.	Galvanized screw 4 x 8 mm		2 [pcs.]			WKR/Zn/W/4x8		
19.	Galvanized screw 4 x 16 mm		2 [pcs.]			WKR/Zn/W/4x16		

Box SKT Nova with PSBA and WSB and WSD



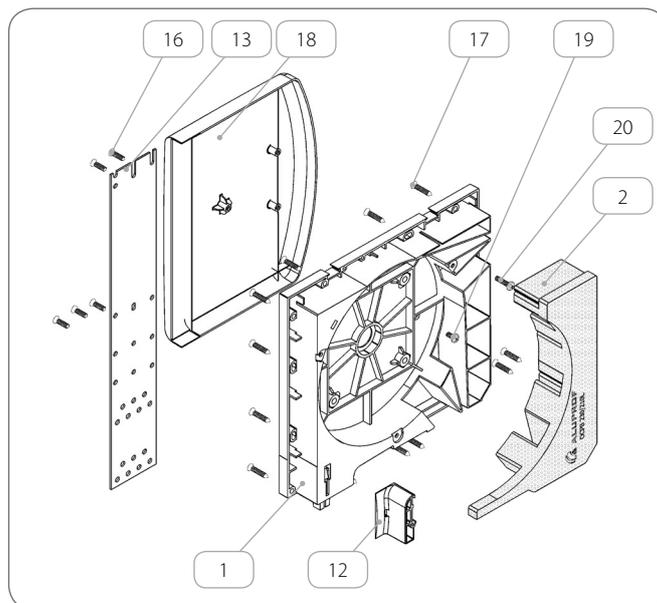
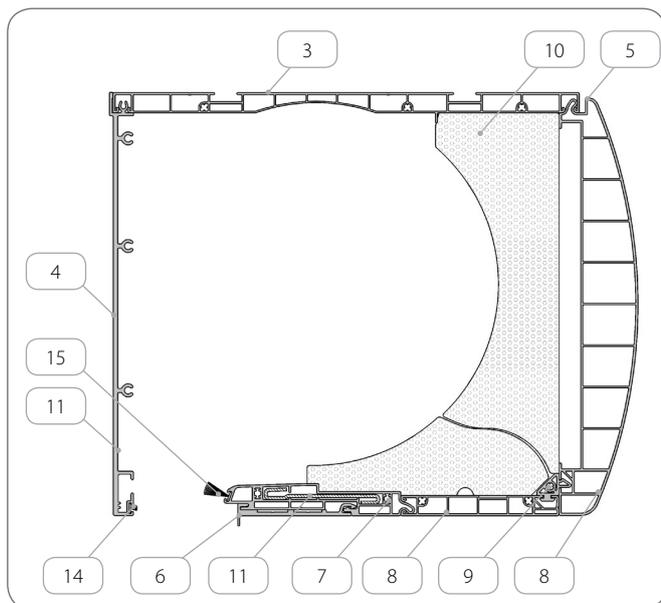
	Name of the component	Length	Quantity			Catalogue code		
			SKT230/170	SKT230/210	SKT255/240	SKT230/170	SKT230/210	SKT255/240
1.	End cap for shutter box SKT with MKT		1 [pair]			PBM/W/230/170	PBM/W/230/210	PBM/W/255/240
2.	Thermal insulation for end cap		1 [pair]			OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
3.	SKT box - top profile	A-20 [mm]	1 [pcs.]			PSG/230		PSG/255
4.	SKT box - side profile	A-20 [mm]	1 [pcs.]			PSB/170	PSB/210	PSB/240
5.	Oval shutter box side profile	A-20 [mm]	1 [pcs.]			PSBO/170	PSBO/210	PSBO/240
6.	Box adapting profile	A-20 [mm]	1 [pcs.]			PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
7.	SKT box - base steel profile reinforcement	A-20 [mm]	1 [pcs.]			PSDW		
8.	Shutter box base revision profile	A-20 [mm]	1 [pcs.]			PSRD/MKT/78		PSRD/MKT/103
9.	Box snap profile	A-20 [mm]	1 [pcs.]			PSZ		
10.	Thermal insulation for SKT box	A-89 [mm]	1 [set]			OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240
11.	Side steel reinforcement	A-20 [mm]	1 [pcs.]			WSB		
12.	Bottom steel reinforcement	A-20 [mm]	1 [pcs.]			WSD		
13.	Entry guide		1 [pair]			SLMI/A, SLMA/A		
14.	End cap to window frame connector		2 [pcs.]			LPB-RO		
15.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSB/R		
16.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSD		
17.	Galvanized screw 4,2 x 16 mm		12 [pcs.]	10 [pcs.]	12 [pcs.]	WKR/Zn/S/4,2x16		
18.	Galvanized screw 4,2 x 25 mm		22 [pcs.]	24 [pcs.]	26 [pcs.]	WKR/Zn/S/4,2x25		
19.	Oval mask for the end cap		2 [pcs.]			NOPB/230/170	NOPB/230/210	NOPB/255/240
20.	Galvanized screw 4 x 8 mm		2 [pcs.]			WKR/Zn/W/4x8		
21.	Galvanized screw 4 x 16 mm		2 [pcs.]			WKR/Zn/W/4x16		

Box SKT Nova with PSBA and PSBO



	Name of the component	Length	Quantity			Catalogue code		
			SKT230/170	SKT230/210	SKT255/240	SKT230/170	SKT230/210	SKT255/240
1.	End cap for shutter box SKT with MKT		1 [pair]			PBM/W/230/170	PBM/W/230/210	PBM/W/255/240
2.	Thermal insulation for end cap		1 [pair]			OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
3.	SKT box - top profile	A-20 [mm]	1 [pcs.]			PSG/230		PSG/255
4.	Aluminium shutter box side profile	A-20 [mm]	1 [pcs.]			PSBA/170	PSBA/210	PSBA/240
5.	Oval shutter box side profile	A-20 [mm]	1 [pcs.]			PSBO/170	PSBO/210	PSBO/240
6.	Box adapting profile	A-20 [mm]	1 [pcs.]			PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
7.	SKT box - base profile	A-20 [mm]	1 [pcs.]			PSD		
8.	Shutter box base revision profile	A-20 [mm]	1 [pcs.]			PSRD/MKT/78		PSRD/MKT/103
9.	Box snap profile	A-20 [mm]	1 [pcs.]			PSZ		
10.	Thermal insulation for SKT box	A-89 [mm]	1 [set]			OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240
11.	Entry guide		1 [pair]			SLMI/A, SLMA/A		
12.	End cap to window frame connector		2 [pcs.]			LPB-RO		
13.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSB/R		
14.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSD		
15.	Galvanized screw 4,2 x 16 mm		12 [pcs.]	10 [pcs.]	12 [pcs.]	WKR/Zn/S/4,2x16		
16.	Galvanized screw 4,2 x 25 mm		22 [pcs.]	24 [pcs.]	26 [pcs.]	WKR/Zn/S/4,2x25		
17.	Oval mask for the end cap		2 [pcs.]			NOPB/230/170	NOPB/230/210	NOPB/255/240
18.	Galvanized screw 4 x 8 mm		2 [pcs.]			WKR/Zn/W/4x8		
19.	Galvanized screw 4 x 16 mm		2 [pcs.]			WKR/Zn/W/4x16		

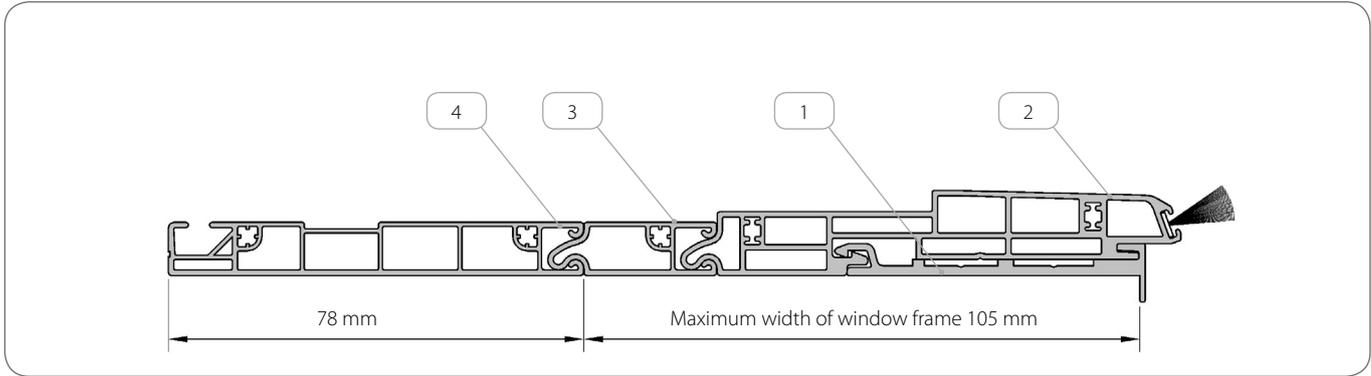
Box SKT Nova with PSBA and PSBO and WSD



	Name of the component	Length	Quantity			Catalogue code		
			SKT230/170	SKT230/210	SKT255/240	SKT230/170	SKT230/210	SKT255/240
1.	End cap for shutter box SKT with MKT		1 [pair]			PBM/W/230/170	PBM/W/230/210	PBM/W/255/240
2.	Thermal insulation for end cap		1 [pair]			OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
3.	SKT box - top profile	A-20 [mm]	1 [pcs.]			PSG/230		PSG/255
4.	Aluminium shutter box side profile	A-20 [mm]	1 [pcs.]			PSB/170	PSB/210	PSB/240
5.	Oval shutter box side profile	A-20 [mm]	1 [pcs.]			PSBO/170	PSBO/210	PSBO/240
6.	Box adapting profile	A-20 [mm]	1 [pcs.]			PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
7.	SKT box - base steel profile reinforcement	A-20 [mm]	1 [pcs.]			PSDW		
8.	Shutter box base revision profile	A-20 [mm]	1 [pcs.]			PSRD/MKT/78		PSRD/MKT/103
9.	Box snap profile	A-20 [mm]	1 [pcs.]			PSZ		
10.	Thermal insulation for SKT box	A-89 [mm]	1 [set]			OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240
11.	Bottom steel reinforcement	A-20 [mm]	1 [pcs.]			WSD		
12.	Entry guide		1 [pair]			SLMI/A, SLMA/A		
13.	End cap to window frame connector		2 [pcs.]			LPB-RO		
14.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSB/R		
15.	Brush seal	A-20 [mm]	1 [pcs.]			U/PSD		
16.	Galvanized screw 4,2 x 16 mm		12 [pcs.]	10 [pcs.]	12 [pcs.]	WKR/Zn/S/4,2x16		
17.	Galvanized screw 4,2 x 25 mm		22 [pcs.]	24 [pcs.]	26 [pcs.]	WKR/Zn/S/4,2x25		
18.	Oval mask for the end cap		2 [pcs.]			NOPB/230/170	NOPB/230/210	NOPB/255/240
19.	Galvanized screw 4 x 8 mm		2 [pcs.]			WKR/Zn/W/4x8		
20.	Galvanized screw 4 x 16 mm		2 [pcs.]			WKR/Zn/W/4x16		

7.3.3.2. Cutting specification and list of components for a single roller shutter

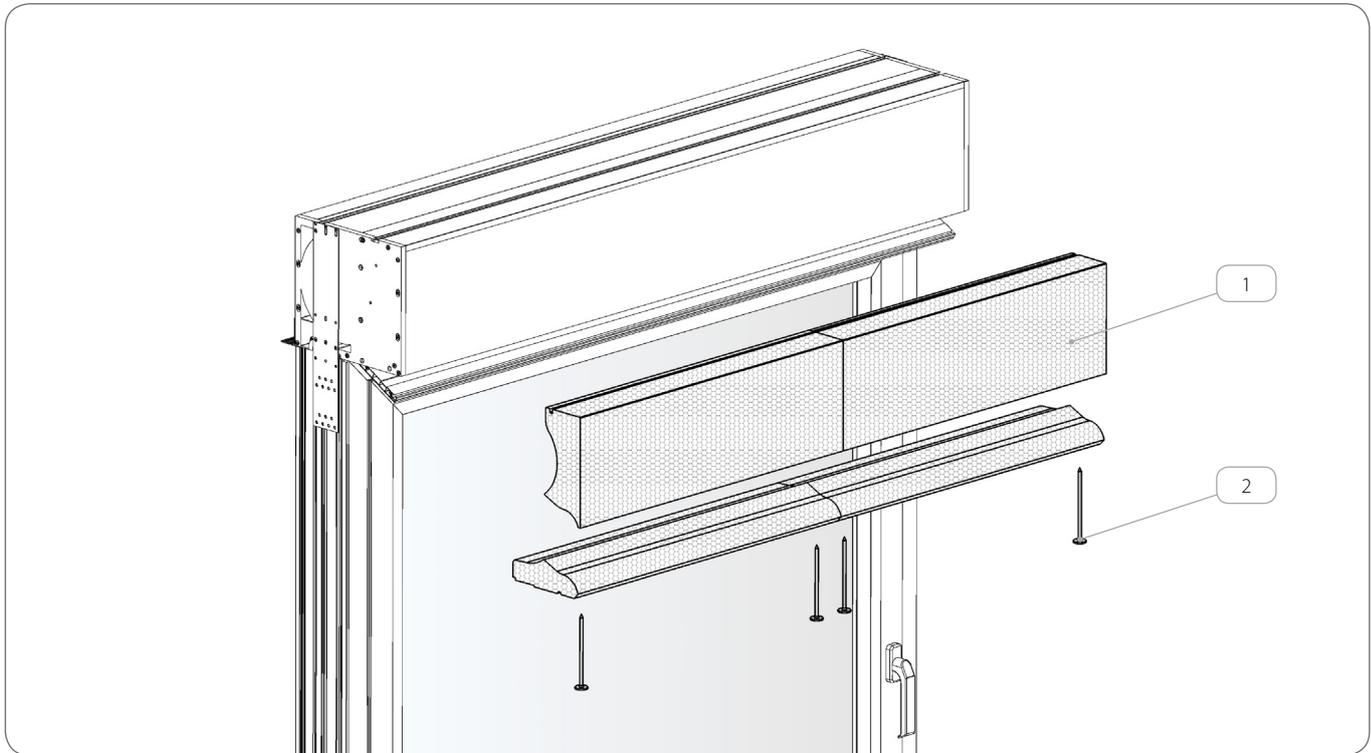
For roller shutter box SKT 255/240 Nova



	Name of the component	Length	Quantity	Catalogue code
1.	Box adapting profile	A-20 [mm]	1 [pcs.]	PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2
2.	SKT box - base profile	A-20 [mm]	1 [pcs.]	PSD, PSDW
3.	SKT box - base extended profile		1 [pcs.]	PSPD/25
4.	Shutter box base revision profile	A-20 [mm]	1 [pcs.]	PSRD/MKT/78
5.	Galvanized screw 4,2 x 25 mm		32 [pcs.]	WKR/Zn/S/4,2x25
	Revision from the bottom			

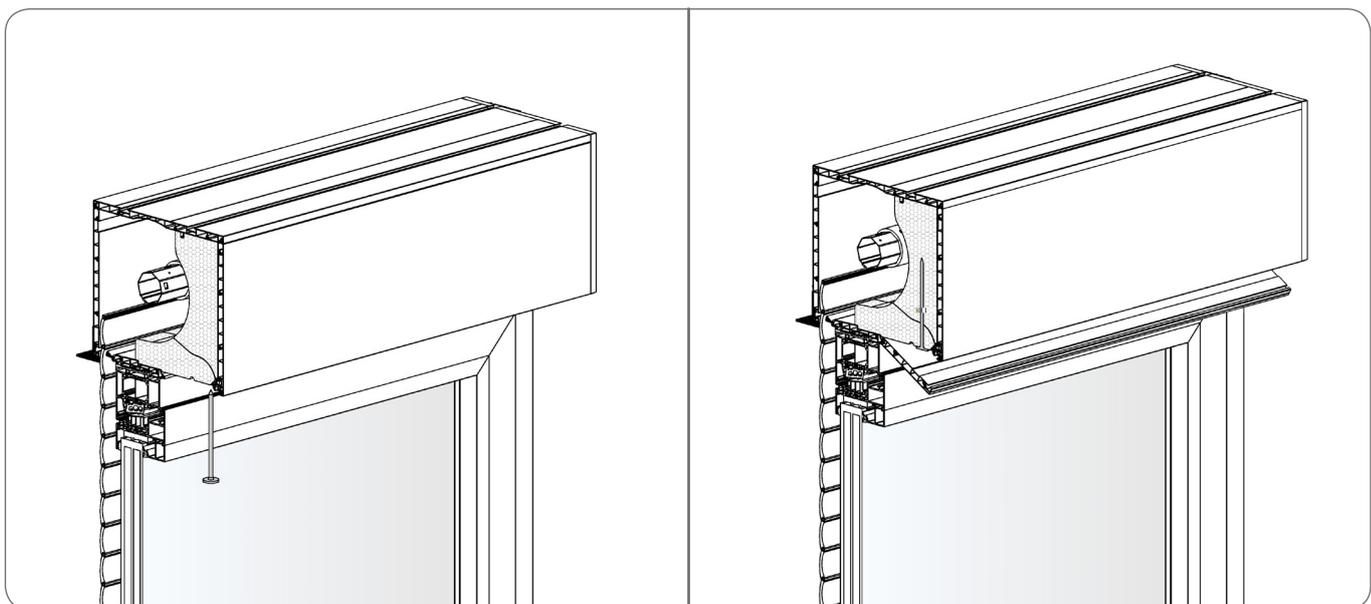
7.4. Installation of the roller shutter box

 With OC+ isolation SMOC mounting pins should be used.



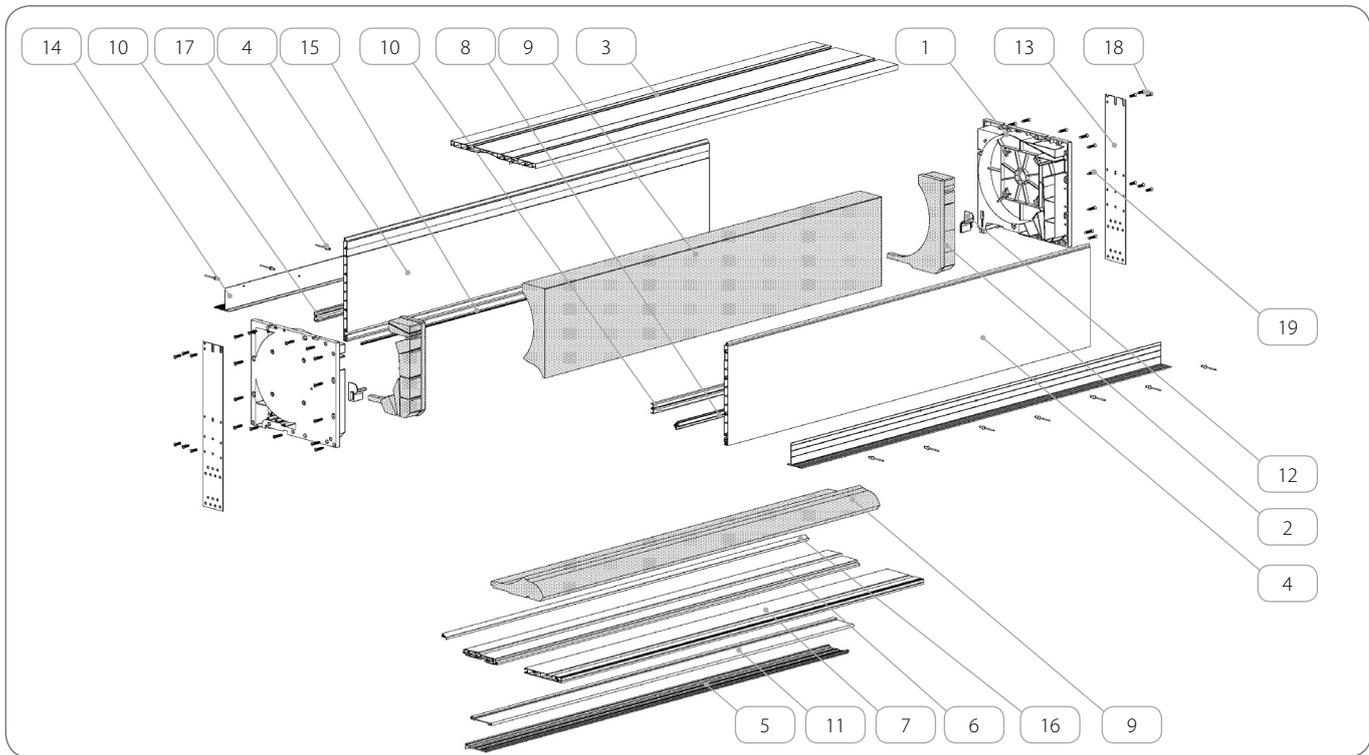
	Name of the component	Quantity	Catalogue code
1.	Thermal insulation for SKT box		OC+/N/230/210, OC+/N/255/240
2.	Mounting pin for insulation	QUANTITY_{OC+} x 2 [pcs.]	SMOC

SMOC pin should be mounted near edges of each **OC+** isolation sections.



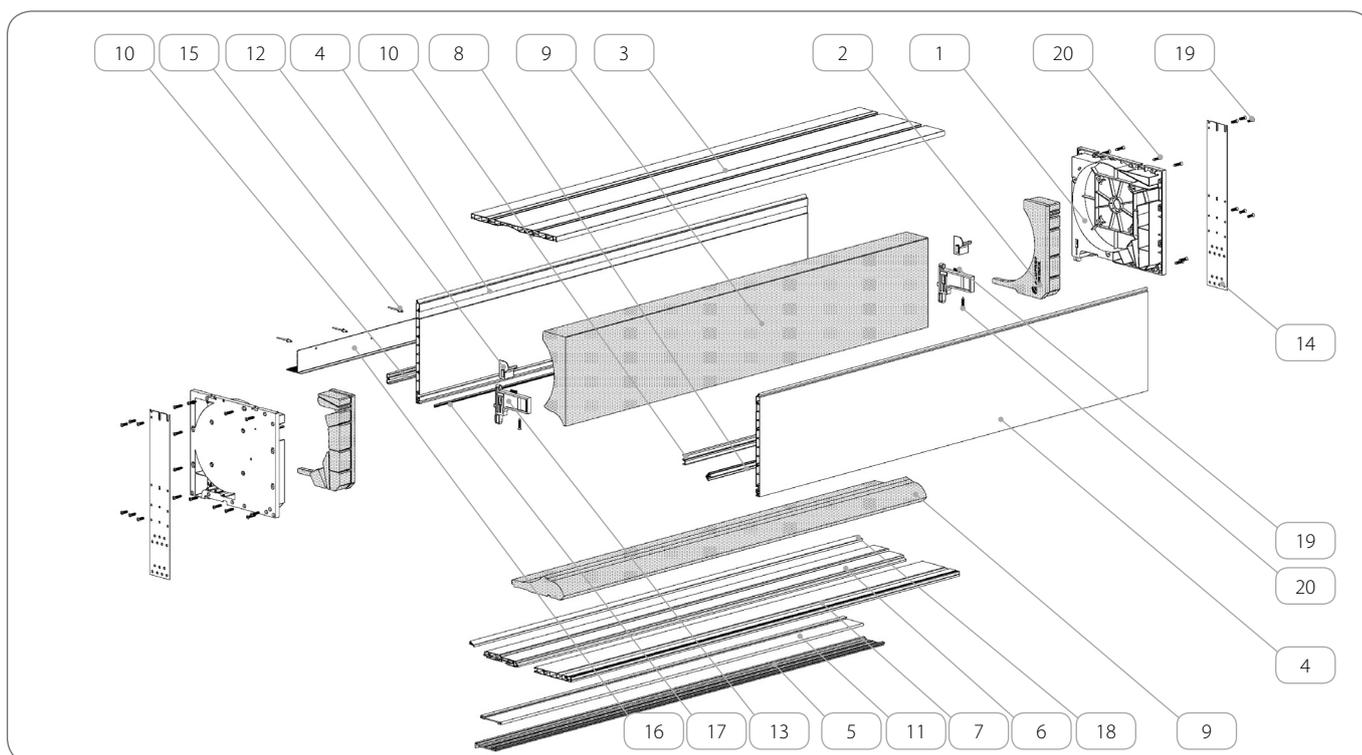
7.4.1. Box SKT Opoterm

7.4.1.1. Single roller shutter



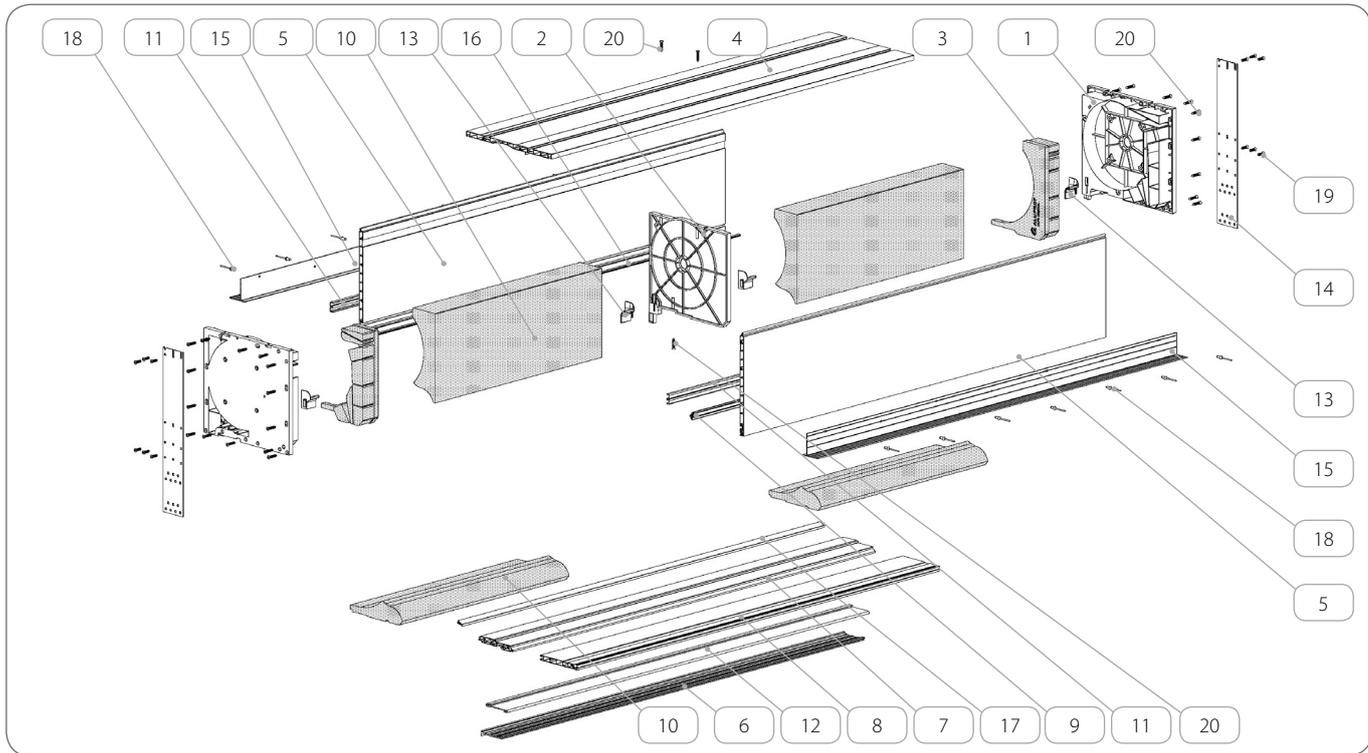
	Name of the component	Catalogue code		
		SKT230/170	SKT230/210	SKT255/240
1.	End cap	PB/230/170	PB/230/210	PB/255/240
2.	Thermal insulation for end cap	OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
3.	SKT box - top profile	PSG/230		PSG/255
4.	SKT box - side profile	PSB/170	PSB/210	PSB/240
5.	Box adapting profile	PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
6.	SKT box - base steel profile reinforcement	PSD, PSDW		
7.	Shutter box base revision profile	PSRD/100	PSRD/125	
8.	Box snap profile	PSZ		
9.	Thermal insulation for SKT box	OC/A/S/230/170 OC/A/N/230/170	OC/A/S/230/210 OC/A/N/230/210 OC+/N/230/210	OC/A/S/255/240 OC/A/N/255/240 OC+/N/255/240
10.	Side steel reinforcement	WSB		
11.	Bottom steel reinforcement	WSD		
12.	Entry guide	SLMI, SLMA		
13.	End cap to window frame connector	LPB-RO		
14.	Support	NT/23/10, NT/45/10, NT/45/30, NT/45/45, NT/45/105		
15.	Brush seal	U/PSB/R		
16.	Brush seal	U/PSD		
17.	Aluminium rivets 4 x 8 mm	PN4x8		
18.	Galvanized screw 4,2 x 16 mm	WKR/Zn/S/4,2x16		
19.	Galvanized screw 4,2 x 25 mm	WKR/Zn/S/4,2x25		

7.4.1.2. Single roller shutter with extension

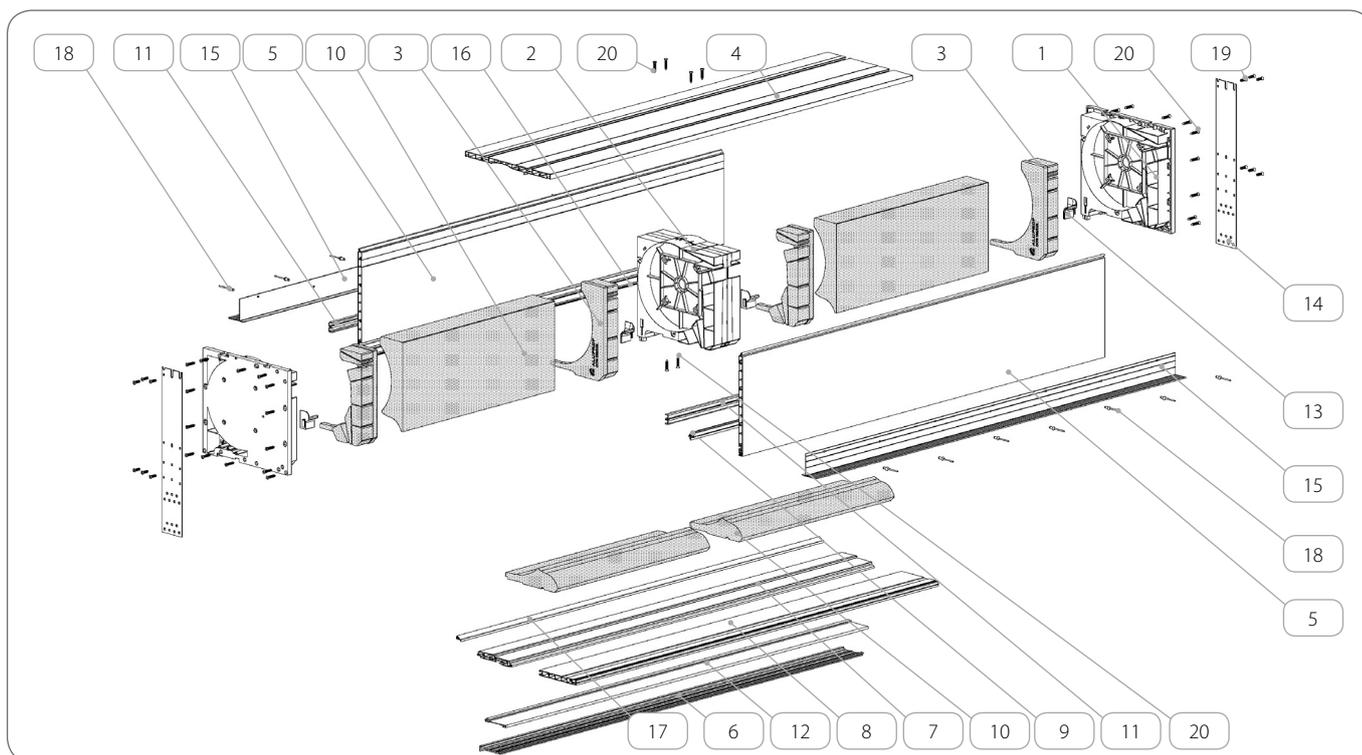


	Name of the component	Catalogue code		
		SKT230/170	SKT230/210	SKT255/240
1.	End cap	PB/230/170	PB/230/210	PB/255/240
2.	Thermal insulation for end cap	OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
3.	SKT box - top profile	PSG/230		PSG/255
4.	SKT box - side profile	PSB/170	PSB/210	PSB/240
5.	Box adapting profile	PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
6.	SKT box - base steel profile reinforcement	PSDW		
7.	Shutter box base revision profile	PSRD/100		PSRD/125
8.	Box snap profile	PSZ		
9.	Thermal insulation for SKT box	OC/A/S/230/170 OC/A/N/230/170	OC/A/S/230/210 OC/A/N/230/210 OC+/N/230/210	OC/A/S/255/240 OC/A/N/255/240 OC+/N/255/240
10.	Side steel reinforcement	WSB		
11.	Bottom steel reinforcement	WSD		
12.	Entry guide	SLMI, SLMA, SLMI/A, SLMA/A		
13.	Entry guide adapter	ASSKT		
14.	End cap to window frame connector	LPB-RO		
15.	Aluminium rivets 4 x 8 mm	PN4x8		
16.	Support	NT/23/10, NT/45/10, NT/45/30, NT/45/45, NT/45/105		
17.	Brush seal	U/PSB/R		
18.	Brush seal	U/PSD		
19.	Galvanized screw 4,2 x 16 mm	WKR/Zn/S/4,2x16		
20.	Galvanized screw 4,2 x 25 mm	WKR/Zn/S/4,2x25		

7.4.1.3. Roller shutter set of the same height with division wall.

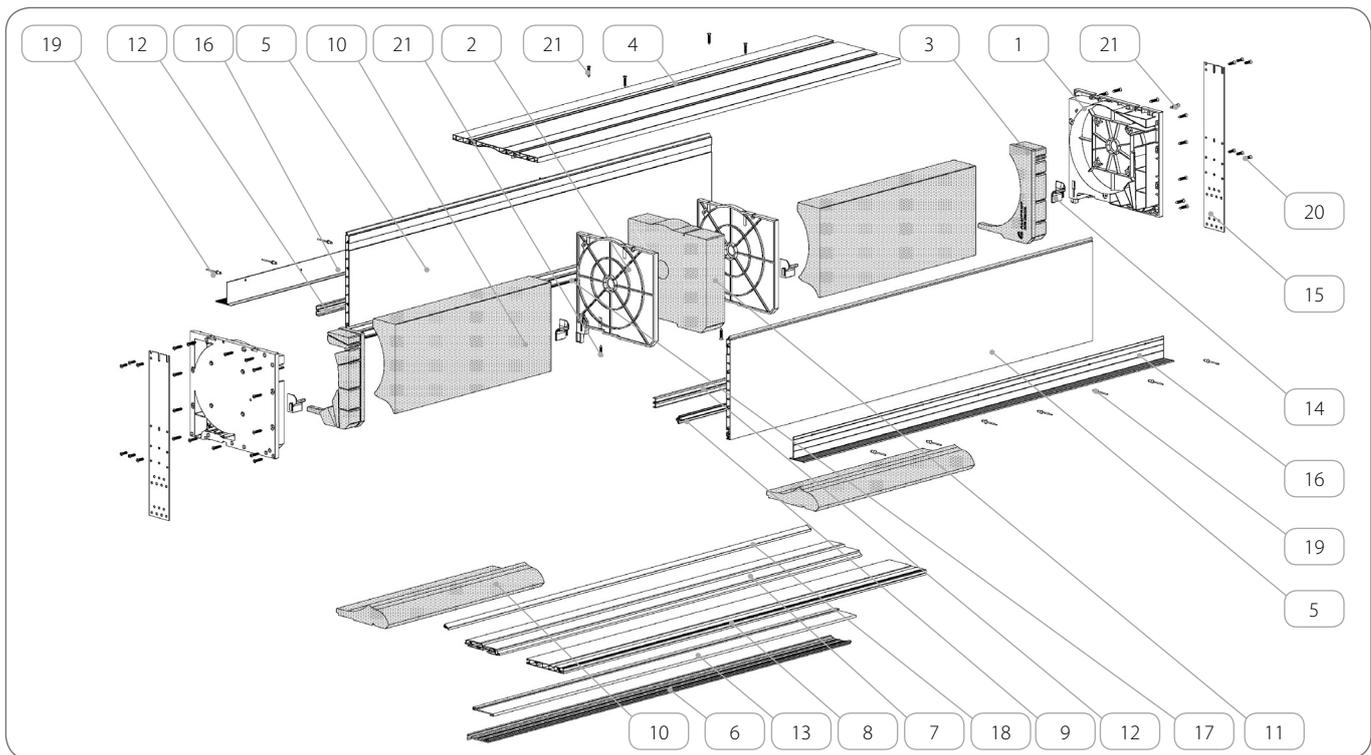


	Name of the component	Catalogue code		
		SKT230/170	SKT230/210	SKT255/240
1.	End cap	PB/230/170	PB/230/210	PB/255/240
2.	Division wall for shutter box SKT	SP/230/170	SP/230/210	SP/255/240
3.	Thermal insulation for end cap	OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
4.	SKT box - top profile	PSG/230		PSG/255
5.	SKT box - side profile	PSB/170	PSB/210	PSB/240
6.	Box adapting profile	PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
7.	SKT box - base profile / SKT box - base steel profile reinforcement	PSD, PSDW		
8.	Shutter box base revision profile	PSRD/100	PSRD/125	
9.	Box snap profile	PSZ		
10.	Thermal insulation for SKT box	OC/A/S/230/170 OC/A/N/230/170	OC/A/S/230/210 OC/A/N/230/210 OC+/N/230/210	OC/A/S/255/240 OC/A/N/255/240 OC+/N/255/240
11.	Side steel reinforcement	WSB		
12.	Bottom steel reinforcement	WSD		
13.	Entry guide	SLMI, SLMA		
14.	End cap to window frame connector	LPB-RO		
15.	Support	NT/23/10, NT/45/10, NT/45/30, NT/45/45, NT/45/105		
16.	Brush seal	U/PSB/R		
17.	Brush seal	U/PSD		
18.	Aluminium rivets 4 x 8 mm	PN4x8		
19.	Galvanized screw 4,2 x 16 mm	WKR/Zn/S/4,2x16		
20.	Galvanized screw 4,2 x 25 mm	WKR/Zn/S/4,2x25		

7.4.1.4. Roller shutter set of the same height or roller shutter set window - door with compound internal end caps.


	Name of the component	Catalogue code		
		SKT230/170	SKT230/210	SKT255/240
1.	End cap	PB/230/170	PB/230/210	PB/255/240
2.	Compound internal end caps for shutter box SKT	PBW/230/170	PBW/230/210	PBW/255/240
3.	Thermal insulation for end cap	OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
4.	SKT box - top profile	PSG/230		PSG/255
5.	SKT box - side profile	PSB/170	PSB/210	PSB/240
6.	Box adapting profile	PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
7.	SKT box - base profile / SKT box - base steel profile reinforcement	PSD, PSDW		
8.	Shutter box base revision profile	PSRD/100		PSRD/125
9.	Box snap profile	PSZ		
10.	Thermal insulation for SKT box	OC/A/S/230/170 OC/A/N/230/170	OC/A/S/230/210 OC/A/N/230/210 OC+/N/230/210	OC/A/S/255/240 OC/A/N/255/240 OC+/N/255/240
11.	Side steel reinforcement	WSB		
12.	Bottom steel reinforcement	WSD		
13.	Entry guide	SLMI, SLMA		
14.	End cap to window frame connector	LPB-RO		
15.	Support	NT/23/10, NT/45/10, NT/45/30, NT/45/45, NT/45/105		
16.	Brush seal	U/PSB/R		
17.	Brush seal	U/PSD		
18.	Aluminium rivets 4 x 8 mm	PN4x8		
19.	Galvanized screw 4,2 x 16 mm	WKR/Zn/S/4,2x16		
20.	Galvanized screw 4,2 x 25 mm	WKR/Zn/S/4,2x25		

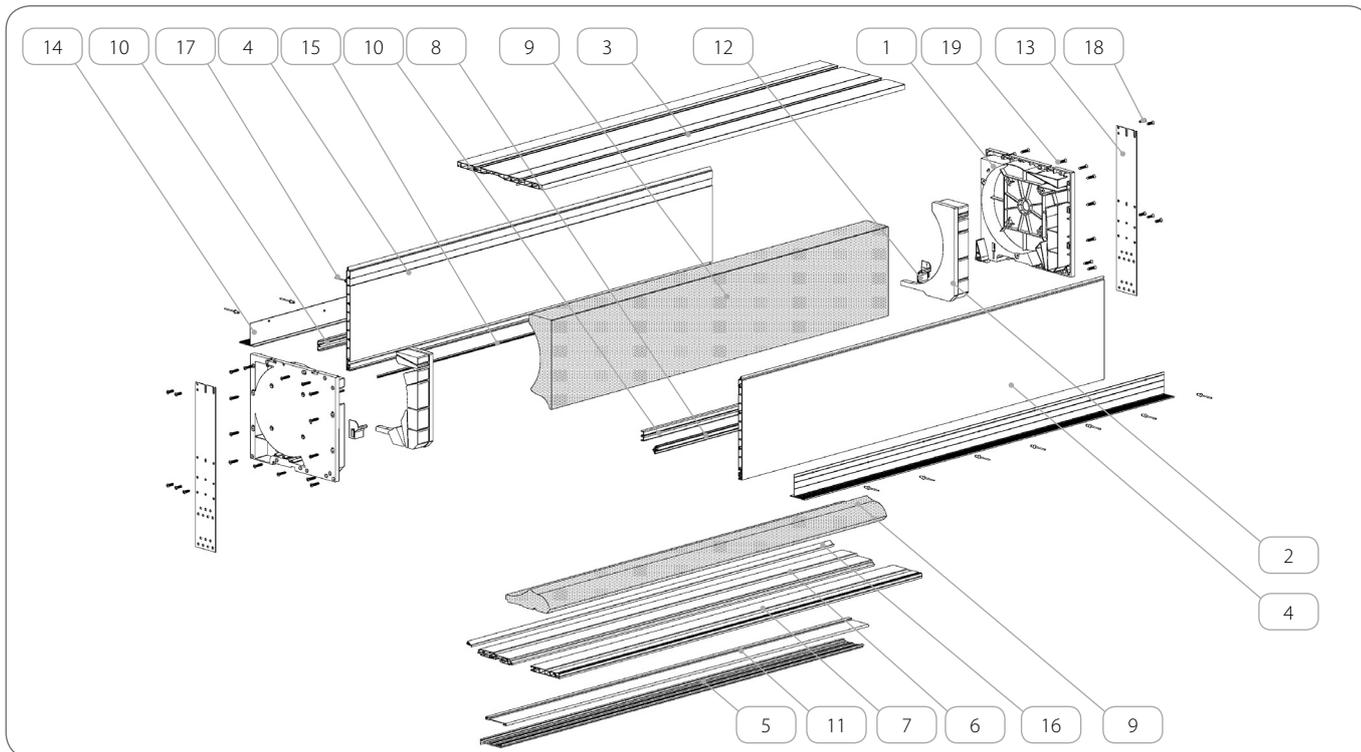
7.4.1.5. Roller shutter set window-door (in one shutter box) with double division wall.



	Name of the component	Catalogue code		
		SKT230/170	SKT230/210	SKT255/240
1.	End cap	PB/230/170	PB/230/210	PB/255/240
2.	Division wall for shutter box SKT	SP/230/170	SP/230/210	SP/255/240
3.	Thermal insulation for end cap	OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
4.	SKT box - top profile	PSG/230		PSG/255
5.	SKT box - side profile	PSB/170	PSB/210	PSB/240
6.	Box adapting profile	PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
7.	SKT box - base profile / SKT box - base steel profile reinforcement	PSD, PSDW		
8.	Shutter box base revision profile	PSRD/100		PSRD/125
9.	Box snap profile	PSZ		
10.	Thermal insulation for SKT box	OC/A/S/230/170 OC/A/N/230/170	OC/A/S/230/210 OC/A/N/230/210 OC+/N/230/210	OC/A/S/255/240 OC/A/N/255/240 OC+/N/255/240
11.	Thermal insulation for division wall	OCP/S/230/170 OCP/N/230/170	OCP/S/230/210 OCP/N/230/210	OCP/S/255/240 OCP/N/255/240
12.	Side steel reinforcement	WSB		
13.	Bottom steel reinforcement	WSD		
14.	Entry guide	SLMI, SLMA		
15.	End cap to window frame connector	LPB-RO		
16.	Support	NT/23/10, NT/45/10, NT/45/30, NT/45/45, NT/45/105		
17.	Brush seal	U/PSB/R		
18.	Brush seal	U/PSD		
19.	Aluminium rivets 4 x 8 mm	PN4x8		
20.	Galvanized screw 4,2 x 16 mm	WKR/Zn/S/4,2x16		
21.	Galvanized screw 4,2 x 25 mm	WKR/Zn/S/4,2x25		

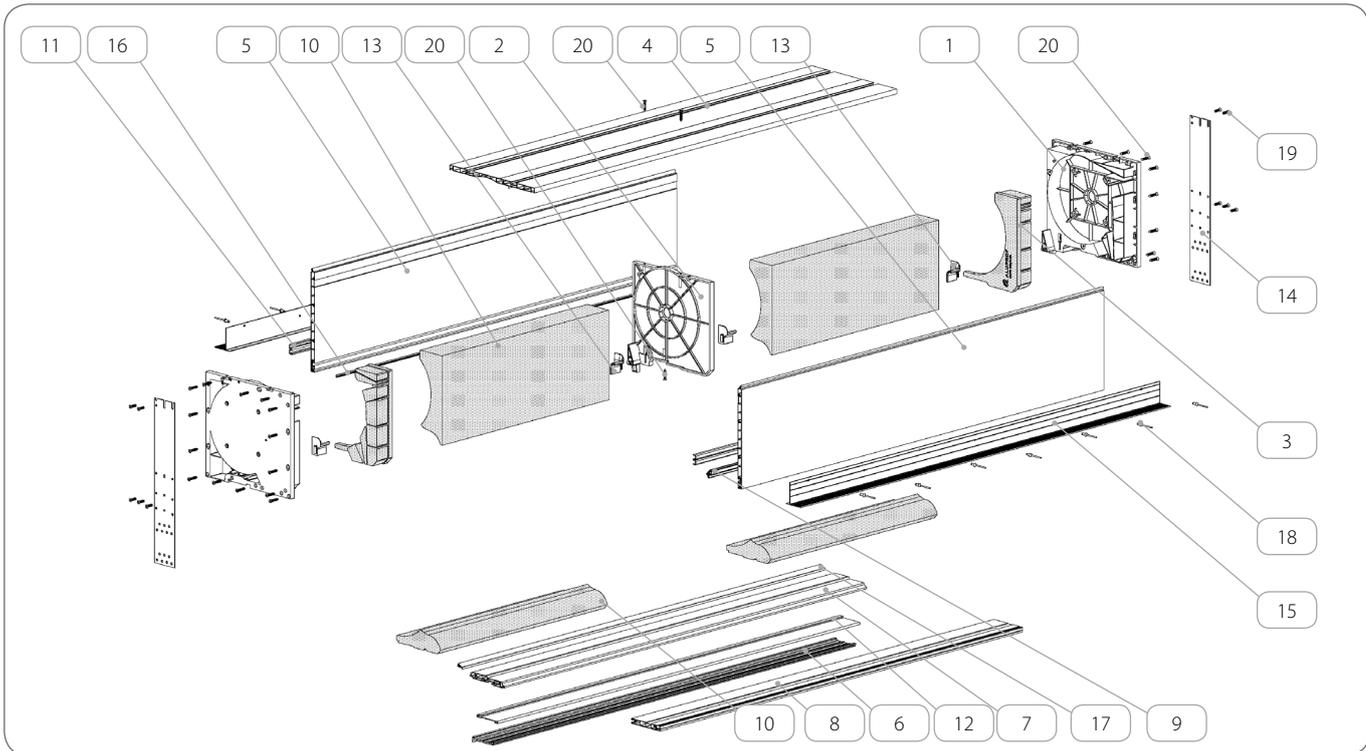
7.4.2. Box SKT + MKT

7.4.2.1. Single roller shutter



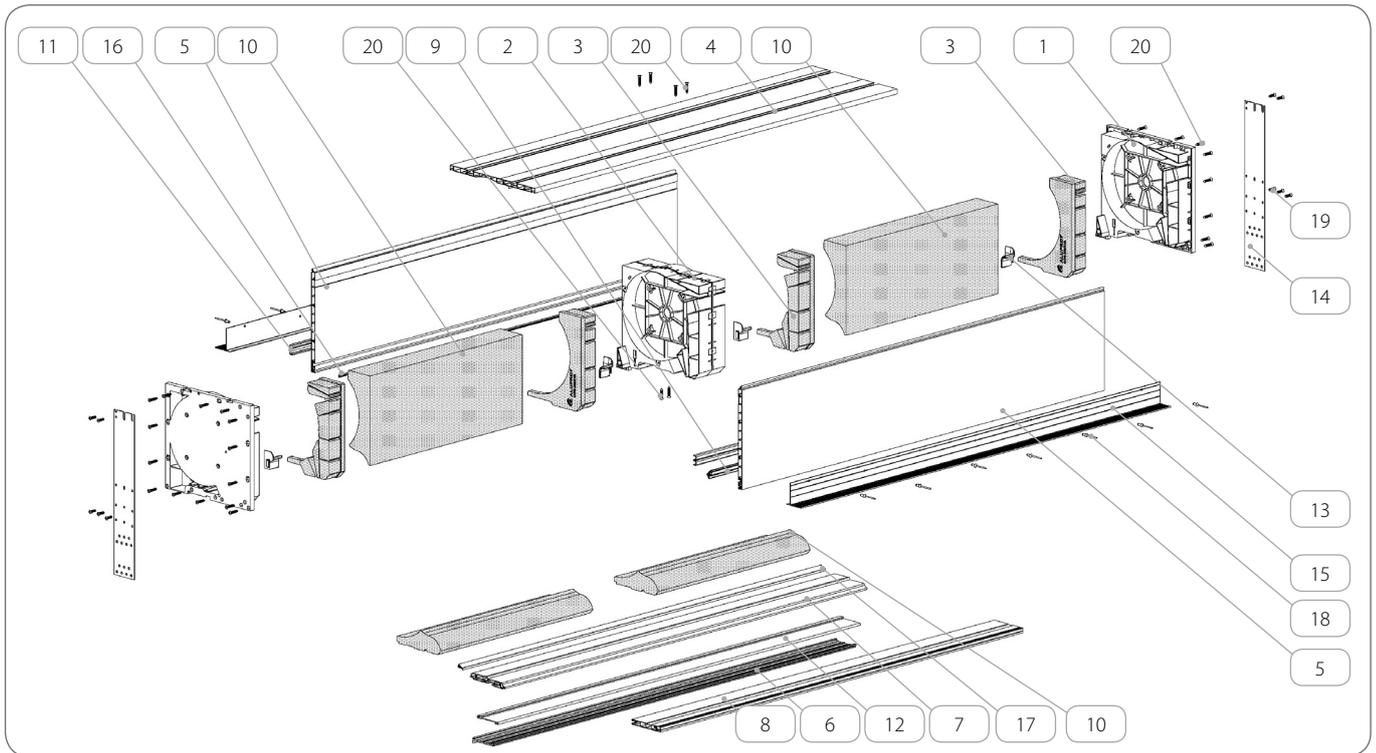
	Name of the component	Catalogue code		
		SKT230/170	SKT230/210	SKT255/240
1.	End cap for shutter box SKT with MKT	PBM/230/170	PBM/230/210	PBM/255/240
2.	Thermal insulation for end cap	OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
3.	SKT box - top profile	PSG/230		PSG/255
4.	SKT box - side profile	PSB/170	PSB/210	PSB/240
5.	Box adapting profile	PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
6.	SKT box - base steel profile reinforcement	PSDW		
7.	Shutter box base revision profile	PSRD/MKT/78		PSRD/MKT/103
8.	Box snap profile	PSZ		
9.	Thermal insulation for SKT box	OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240
10.	Side steel reinforcement	WSB		
11.	Bottom steel reinforcement	WSD		
12.	Entry guide	SLMI, SLMA		
13.	End cap to window frame connector	LPB-RO		
14.	Support	NT/23/10, NT/45/10, NT/45/30, NT/45/45, NT/45/105		
15.	Brush seal	U/PSB/M		
16.	Brush seal	U/PSD		
17.	Aluminium rivets 4 x 8 mm	PN4x8		
18.	Galvanized screw 4,2 x 16 mm	WKR/Zn/S/4,2x16		
19.	Galvanized screw 4,2 x 25 mm	WKR/Zn/S/4,2x25		

7.4.2.2. Roller shutter set of the same height with division wall.



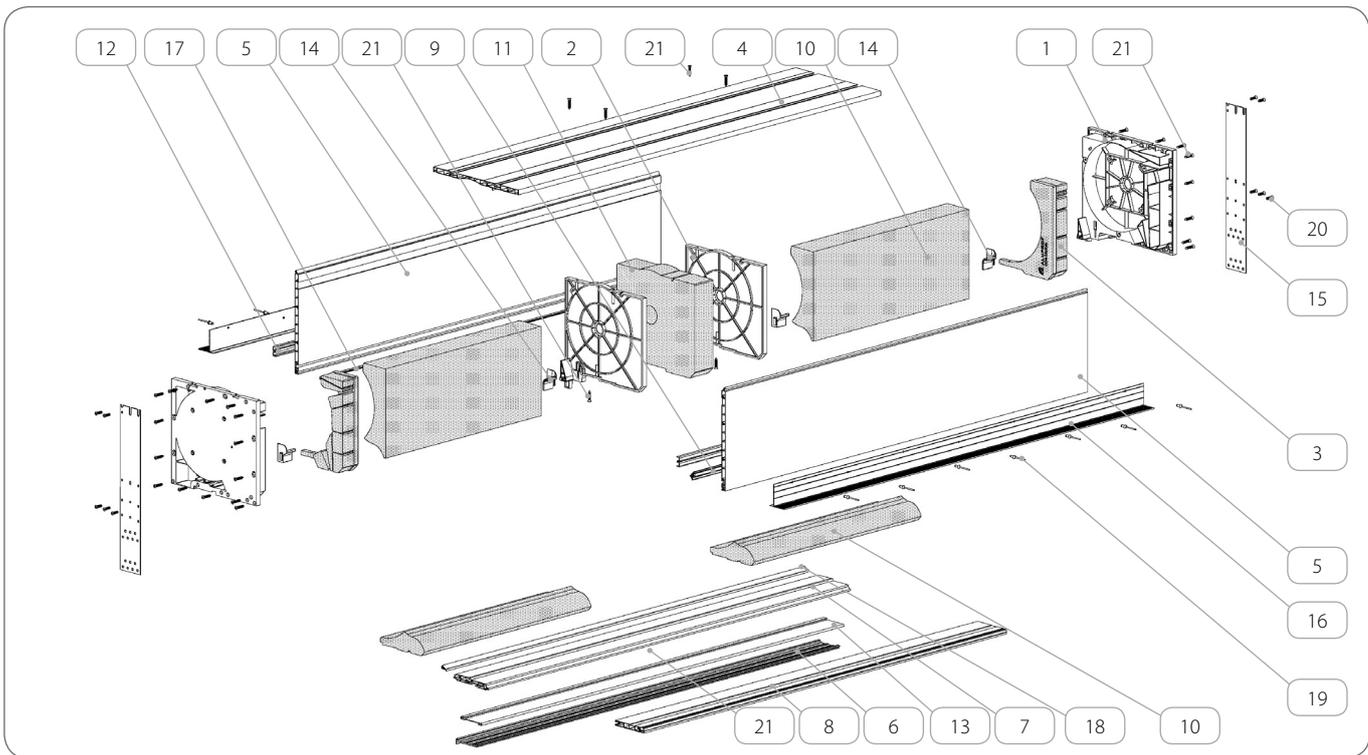
	Name of the component	Catalogue code		
		SKT230/170	SKT230/210	SKT255/240
1.	End cap for shutter box SKT with MKT	PBM/230/170	PBM/230/210	PBM/255/240
2.	Division wall for shutter box SKT with MKT	SPM/230/170	SPM/230/210	SPM/255/240
3.	Thermal insulation for end cap	OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
4.	SKT box - top profile	PSG/230		PSG/255
5.	SKT box - side profile	PSB/170	PSB/210	PSB/240
6.	Box adapting profile	PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
7.	SKT box - base profile / SKT box - base steel profile reinforcement	PSD, PSDW		
8.	Shutter box base revision profile	PSRD/MKT/78		PSRD/MKT/103
9.	Box snap profile	PSZ		
10.	Thermal insulation for SKT box	OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240
11.	Side steel reinforcement	WSB		
12.	Bottom steel reinforcement	WSD		
13.	Entry guide	SLMI, SLMA		
14.	End cap to window frame connector	LPB-RO		
15.	Support	NT/23/10, NT/45/10, NT/45/30, NT/45/45, NT/45/105		
16.	Brush seal	U/PSB/M		
17.	Brush seal	U/PSD		
18.	Aluminium rivets 4 x 8 mm	PN4x8		
19.	Galvanized screw 4,2 x 16 mm	WKR/Zn/S/4,2x16		
20.	Galvanized screw 4,2 x 25 mm	WKR/Zn/S/4,2x25		

7.4.2.3. Roller shutter set of the same height or roller shutter set window - door with compound internal end caps.



	Name of the component	Catalogue code		
		SKT230/170	SKT230/210	SKT255/240
1.	End cap for shutter box SKT with MKT	PBM/230/170	PBM/230/210	PBM/255/240
2.	Compound internal end caps for shutter box SKT with MKT	PBMW/230/170	PBMW/230/210	PBMW/255/240
3.	Thermal insulation for end cap	OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
4.	SKT box - top profile	PSG/230		PSG/255
5.	SKT box - side profile	PSB/170	PSB/210	PSB/240
6.	Box adapting profile	PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
7.	SKT box - base profile / SKT box - base steel profile reinforcement	PSD, PSDW		
8.	Shutter box base revision profile	PSRD/MKT/78		PSRD/MKT/103
9.	Box snap profile	PSZ		
10.	Thermal insulation for SKT box	OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240
11.	Side steel reinforcement	WSB		
12.	Bottom steel reinforcement	WSD		
13.	Entry guide	SLMI, SLMA		
14.	End cap to window frame connector	LPB-RO		
15.	Support	NT/23/10, NT/45/10, NT/45/30, NT/45/45, NT/45/105		
16.	Brush seal	U/PSB/M		
17.	Brush seal	U/PSD		
18.	Aluminium rivets 4 x 8 mm	PN4x8		
19.	Galvanized screw 4,2 x 16 mm	WKR/Zn/S/4,2x16		
20.	Galvanized screw 4,2 x 25 mm	WKR/Zn/S/4,2x25		

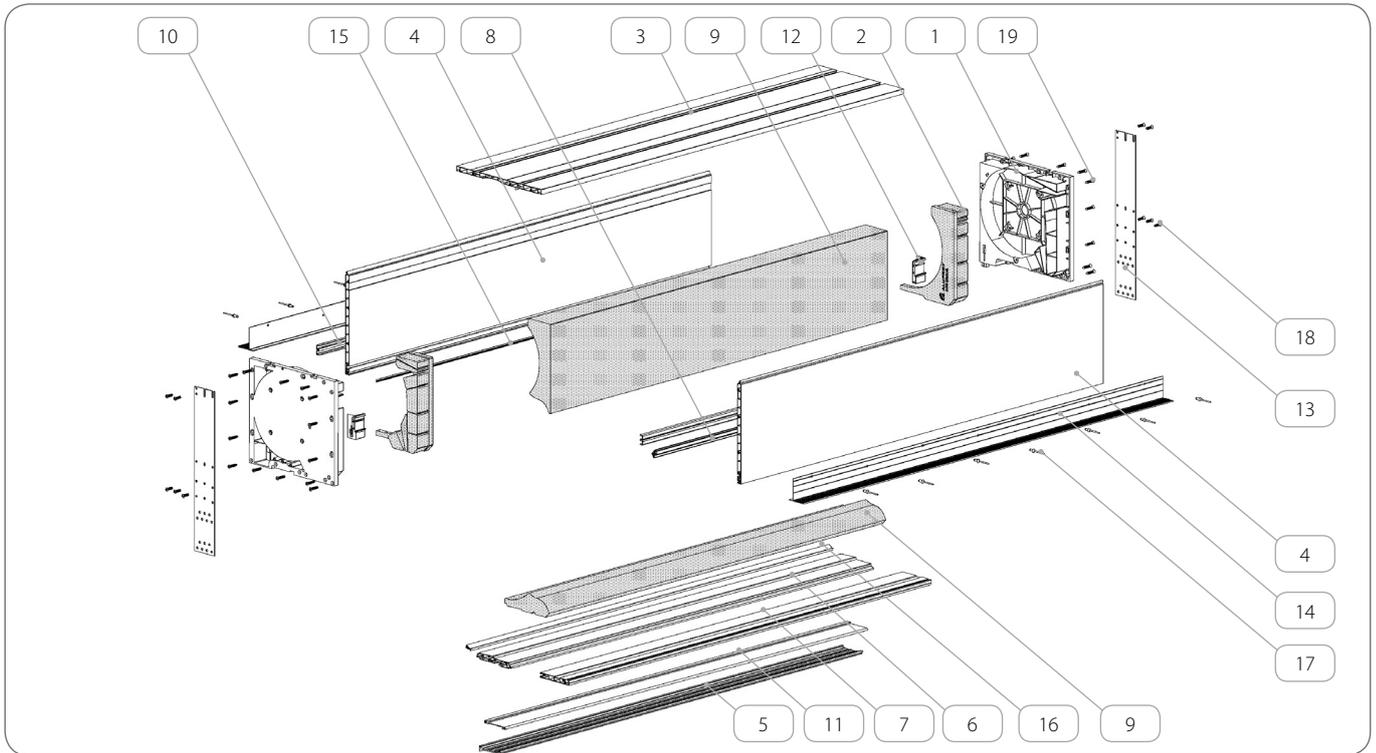
7.4.2.4. Roller shutter set window-door (in one shutter box) with double division wall.



	Name of the component	Catalogue code		
		SKT230/170	SKT230/210	SKT255/240
1.	End cap for shutter box SKT with MKT	PBM/230/170	PBM/230/210	PBM/255/240
2.	Division wall for shutter box SKT with MKT	SPM/230/170	SPM/230/210	SPM/255/240
3.	Thermal insulation for end cap	OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
4.	SKT box - top profile	PSG/230		PSG/255
5.	SKT box - side profile	PSB/170	PSB/210	PSB/240
6.	Box adapting profile	PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
7.	SKT box - base profile / SKT box - base steel profile reinforcement	PSD, PSDW		
8.	Shutter box base revision profile	PSRD/MKT/78		PSRD/MKT/103
9.	Box snap profile	PSZ		
10.	Thermal insulation for SKT box	OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240
11.	Thermal insulation for division wall	OCP/S/230/170 OCP/N/230/170	OCP/S/230/210 OCP/N/230/210	OCP/S/255/240 OCP/N/255/240
12.	Side steel reinforcement	WSB		
13.	Bottom steel reinforcement	WSD		
14.	Entry guide	SLMI, SLMA		
15.	End cap to window frame connector	LPB-RO		
16.	Support	NT/23/10, NT/45/10, NT/45/30, NT/45/45, NT/45/105		
17.	Brush seal	U/PSB/M		
18.	Brush seal	U/PSD		
19.	Aluminium rivets 4 x 8 mm	PN4x8		
20.	Galvanized screw 4,2 x 16 mm	WKR/Zn/S/4,2x16		
21.	Galvanized screw 4,2 x 25 mm	WKR/Zn/S/4,2x25		

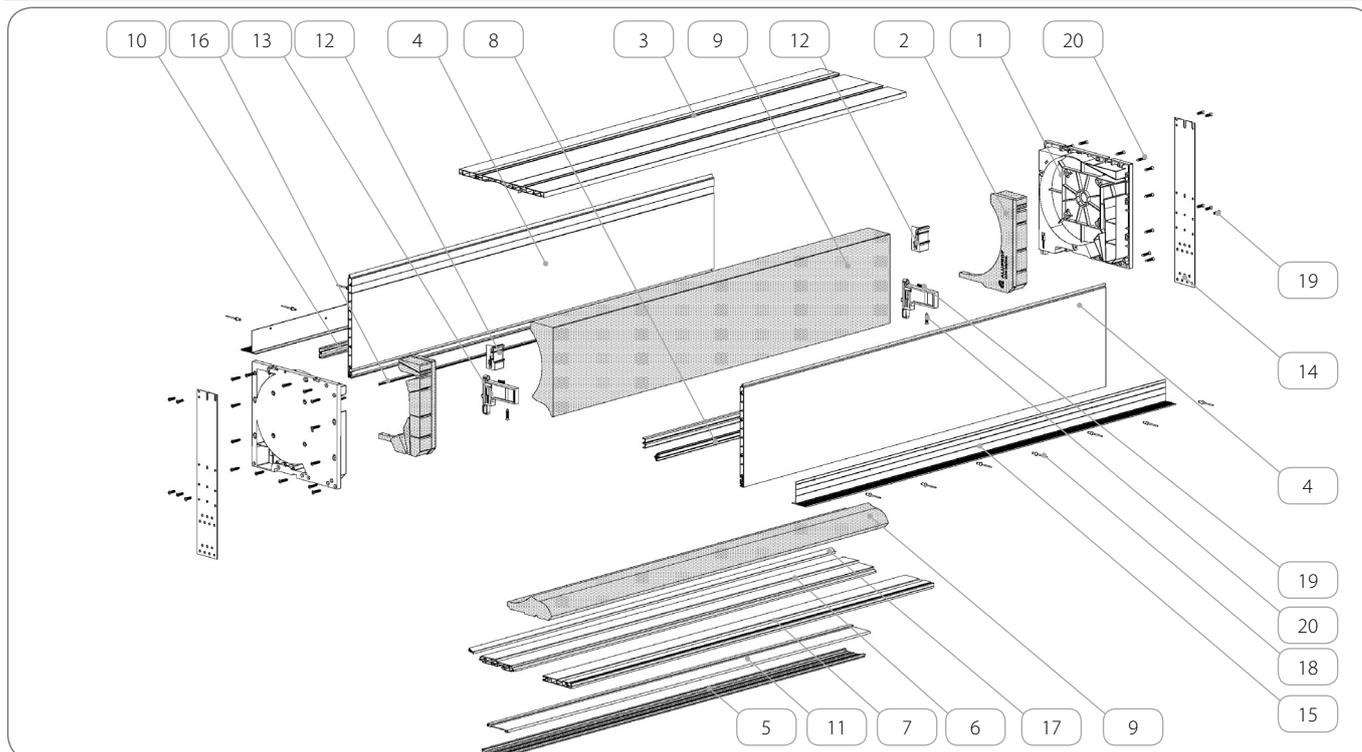
7.4.3. Box SKT Nova

7.4.3.1. Single roller shutter



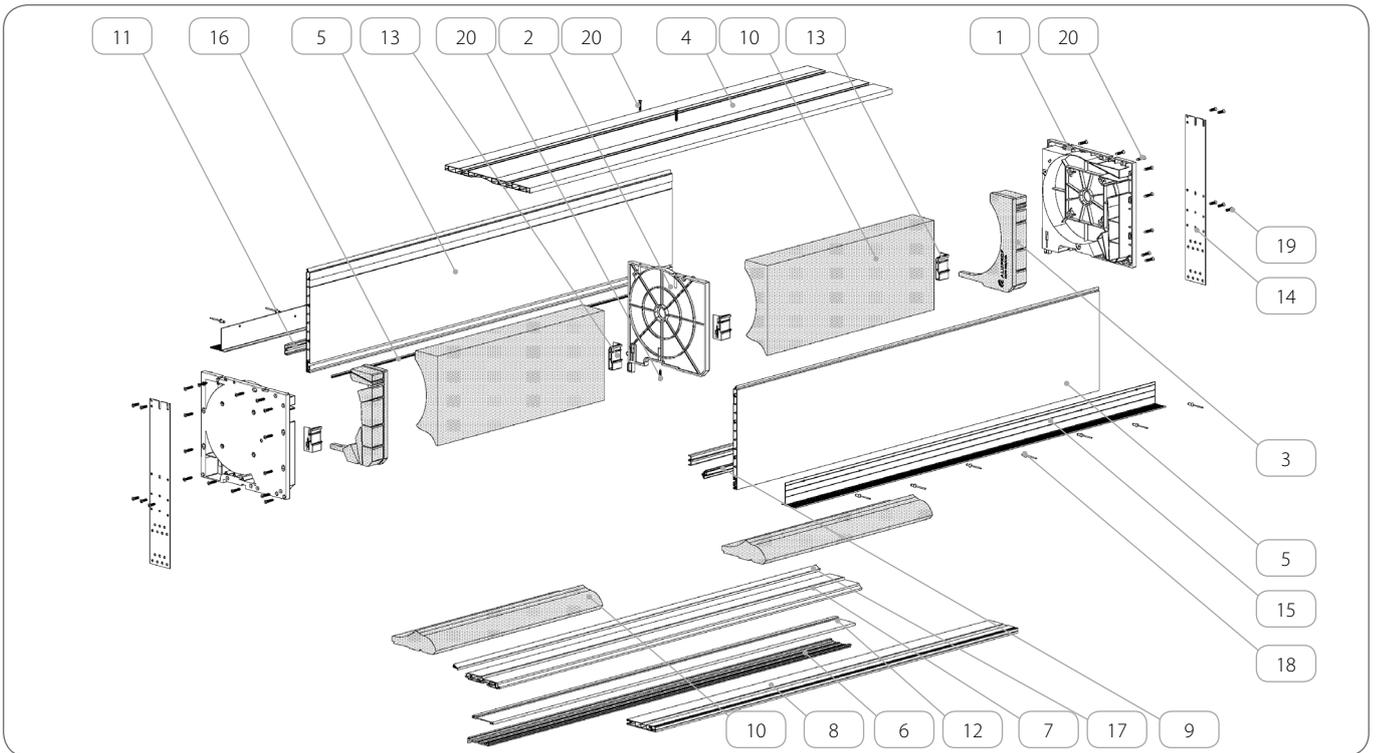
	Name of the component	Catalogue code		
		SKT230/170	SKT230/210	SKT255/240
1.	End cap for shutter box SKT with MKT	PBM/W/230/170	PBM/W/230/210	PBM/W/255/240
2.	Thermal insulation for end cap	OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
3.	SKT box - top profile	PSG/230		PSG/255
4.	SKT box - side profile	PSB/170	PSB/210	PSB/240
5.	Box adapting profile	PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
6.	SKT box - base profile / SKT box - base steel profile reinforcement	PSD, PSDW		
7.	Shutter box base revision profile	PSRD/MKT/78		PSRD/MKT/103
8.	Box snap profile	PSZ		
9.	Thermal insulation for SKT box	OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240
10.	Side steel reinforcement	WSB		
11.	Bottom steel reinforcement	WSD		
12.	Entry guide	SLMI/A, SLMA/A		
13.	End cap to window frame connector	LPB-RO		
14.	Support	NT/23/10, NT/45/10, NT/45/30, NT/45/45, NT/45/105		
15.	Brush seal	U/PSB/R		
16.	Brush seal	U/PSD		
17.	Aluminium rivets 4 x 8 mm	PN4x8		
18.	Galvanized screw 4,2 x 16 mm	WKR/Zn/S/4,2x16		
19.	Galvanized screw 4,2 x 25 mm	WKR/Zn/S/4,2x25		

7.4.3.2. Single roller shutter with extension



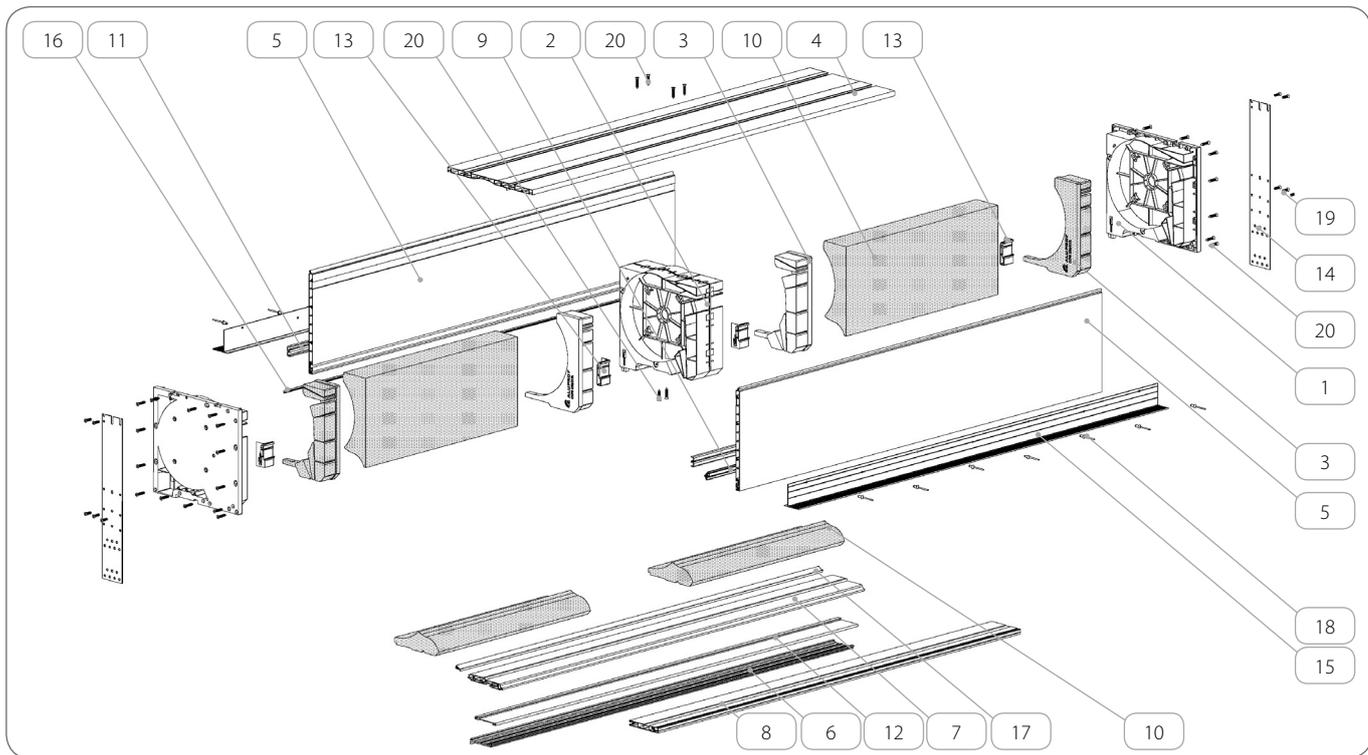
	Name of the component	Catalogue code		
		SKT230/170	SKT230/210	SKT255/240
1.	End cap for shutter box SKT with MKT	PBM/W/230/170	PBM/W/230/210	PBM/W/255/240
2.	Thermal insulation for end cap	OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
3.	SKT box - top profile	PSG/230		PSG/255
4.	SKT box - side profile	PSB/170	PSB/210	PSB/240
5.	Box adapting profile	PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
6.	SKT box - base profile / SKT box - base steel profile reinforcement	PSD, PSDW		
7.	Shutter box base revision profile	PSRD/MKT/78		PSRD/MKT/103
8.	Box snap profile	PSZ		
9.	Thermal insulation for SKT box	OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240
10.	Side steel reinforcement	WSB		
11.	Bottom steel reinforcement	WSD		
12.	Entry guide	SLMI/A, SLMA/A		
13.	Entry guide adapter	ASSKT		
14.	End cap to window frame connector	LPB-RO		
15.	Support	NT/23/10, NT/45/10, NT/45/30, NT/45/45, NT/45/105		
16.	Brush seal	U/PSB/R		
17.	Brush seal	U/PSD		
18.	Aluminium rivets 4 x 8 mm	PN4x8		
19.	Galvanized screw 4,2 x 16 mm	WKR/Zn/S/4,2x16		
20.	Galvanized screw 4,2 x 25 mm	WKR/Zn/S/4,2x25		

7.4.3.3. Roller shutter set of the same height with division wall.

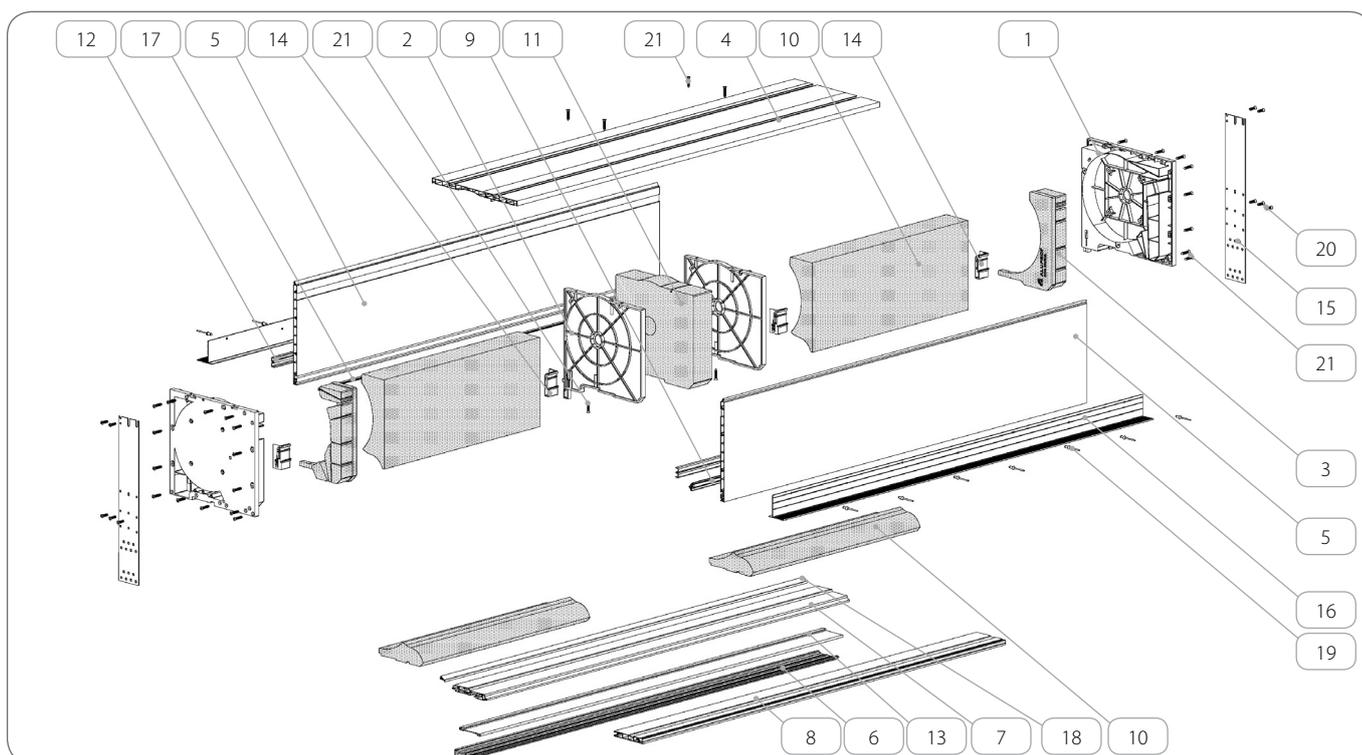


	Name of the component	Catalogue code		
		SKT230/170	SKT230/210	SKT255/240
1.	End cap for shutter box SKT with MKT	PBM/W/230/170	PBM/W/230/210	PBM/W/255/240
2.	Division wall for shutter box SKT with MKT	SPM/W/230/170	SPM/W/230/210	SPM/W/255/240
3.	Thermal insulation for end cap	OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
4.	SKT box - top profile	PSG/230		PSG/255
5.	SKT box - side profile	PSB/170	PSB/210	PSB/240
6.	Box adapting profile	PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
7.	SKT box - base profile / SKT box - base steel profile reinforcement	PSD, PSDW		
8.	Shutter box base revision profile	PSRD/MKT/78		PSRD/MKT/103
9.	Box snap profile	PSZ		
10.	Thermal insulation for SKT box	OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240
11.	Side steel reinforcement	WSB		
12.	Bottom steel reinforcement	WSD		
13.	Entry guide	SLMI/A, SLMA/A		
14.	End cap to window frame connector	LPB-RO		
15.	Support	NT/23/10, NT/45/10, NT/45/30, NT/45/45, NT/45/105		
16.	Brush seal	U/PSB/R		
17.	Brush seal	U/PSD		
18.	Aluminium rivets 4 x 8 mm	PN4x8		
19.	Galvanized screw 4,2 x 16 mm	WKR/Zn/S/4,2x16		
20.	Galvanized screw 4,2 x 25 mm	WKR/Zn/S/4,2x25		

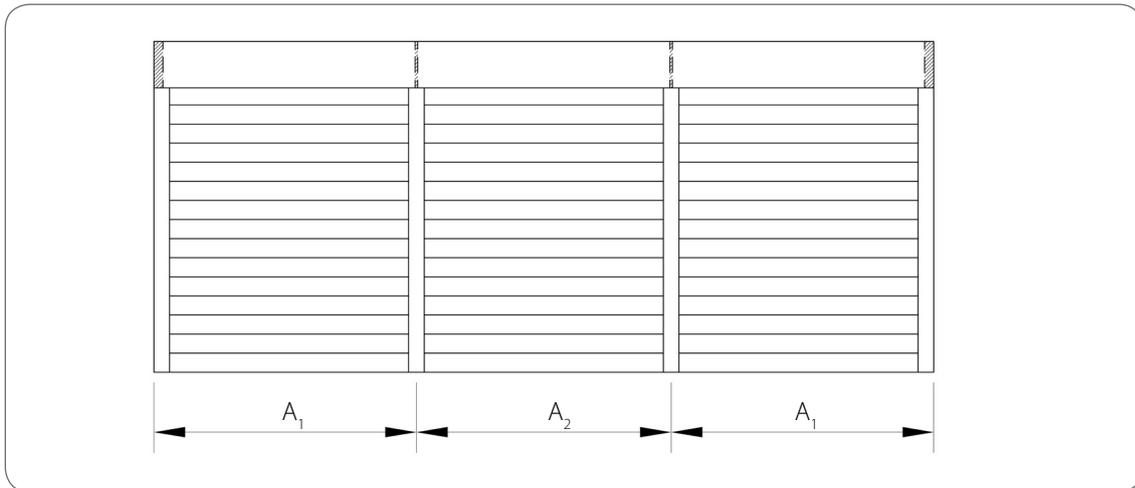
7.4.3.4. Roller shutter set of the same height or roller shutter set window - door with compound internal end caps.



	Name of the component	Catalogue code		
		SKT230/170	SKT230/210	SKT255/240
1.	End cap for shutter box SKT with MKT	PBM/W/230/170	PBM/W/230/210	PBM/W/255/240
2.	Compound internal end caps for shutter box SKT with MKT	PBMW/W/230/170	PBMW/W/230/210	PBMW/W/255/240
3.	Thermal insulation for end cap	OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
4.	SKT box - top profile	PSG/230		PSG/255
5.	SKT box - side profile	PSB/170	PSB/210	PSB/240
6.	Box adapting profile	PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
7.	SKT box - base profile / SKT box - base steel profile reinforcement	PSD, PSDW		
8.	Shutter box base revision profile	PSRD/MKT/78		PSRD/MKT/103
9.	Box snap profile	PSZ		
10.	Thermal insulation for SKT box	OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240
11.	Side steel reinforcement	WSB		
12.	Bottom steel reinforcement	WSD		
13.	Entry guide	SLMI/A, SLMA/A		
14.	End cap to window frame connector	LPB-RO		
15.	Support	NT/23/10, NT/45/10, NT/45/30, NT/45/45, NT/45/105		
16.	Brush seal	U/PSB/R		
17.	Brush seal	U/PSD		
18.	Aluminium rivets 4 x 8 mm	PN4x8		
19.	Galvanized screw 4,2 x 16 mm	WKR/Zn/S/4,2x16		
20.	Galvanized screw 4,2 x 25 mm	WKR/Zn/S/4,2x25		

7.4.3.5. Roller shutter set window-door (in one shutter box) with double division wall.


	Name of the component	Catalogue code		
		SKT230/170	SKT230/210	SKT255/240
1.	End cap for shutter box SKT with MKT	PBM/W/230/170	PBM/W/230/210	PBM/W/255/240
2.	Division wall for shutter box SKT with MKT	SPM/W/230/170	SPM/W/230/210	SPM/W/255/240
3.	Thermal insulation for end cap	OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
4.	SKT box - top profile	PSG/230		PSG/255
5.	SKT box - side profile	PSB/170	PSB/210	PSB/240
6.	Box adapting profile	PSA, PSAW/6,7, PSAW/6,8, PSAW/7, PSAW/7,9, PSAW/8, PSAW/8/2		
7.	SKT box - base profile / SKT box - base steel profile reinforcement	PSD, PSDW		
8.	Shutter box base revision profile	PSRD/MKT/78		PSRD/MKT/103
9.	Box snap profile	PSZ		
10.	Thermal insulation for SKT box	OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240
11.	Thermal insulation for division wall	OCP/S/230/170 OCP/N/230/170	OCP/S/230/210 OCP/N/230/210	OCP/S/255/240 OCP/N/255/240
12.	Side steel reinforcement	WSB		
13.	Bottom steel reinforcement	WSD		
14.	Entry guide	SLMI/A, SLMA/A		
15.	End cap to window frame connector	LPB-RO		
16.	Support	NT/23/10, NT/45/10, NT/45/30, NT/45/45, NT/45/105		
17.	Brush seal	U/PSB/R		
18.	Brush seal	U/PSD		
19.	Aluminium rivets 4 x 8 mm	PN4x8		
20.	Galvanized screw 4,2 x 16 mm	WKR/Zn/S/4,2x16		
21.	Galvanized screw 4,2 x 25 mm	WKR/Zn/S/4,2x25		

7.5. Cutting list and amount of insulation for division.
a) Roller shutter set with division walls

SKT

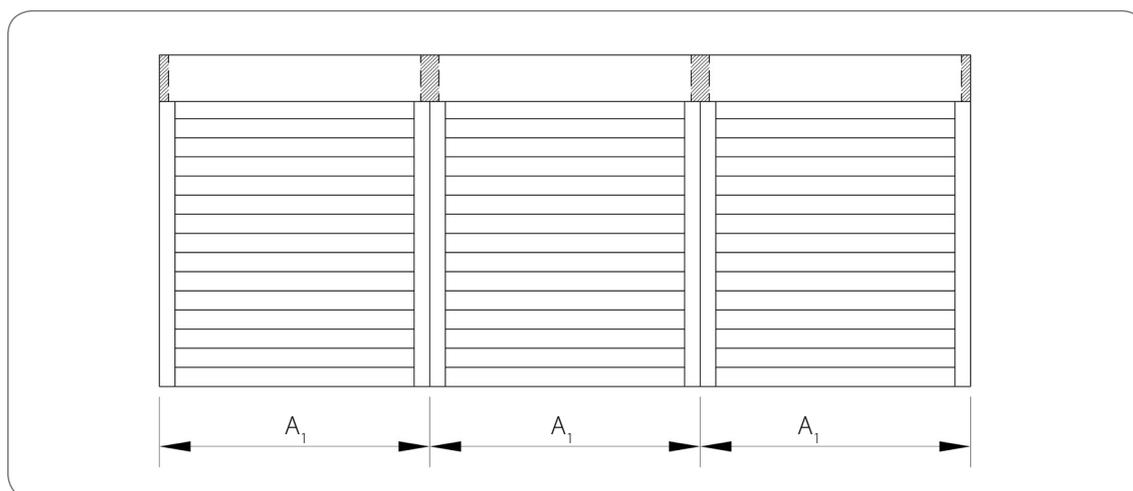
	Name of the component	Length	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	Thermal insulation for end cap		OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
2.	Thermal insulation for SKT box	A ₁ -49 [mm] A ₂ -9 [mm]	OC/A/S/230/170 OC/A/N/230/170	OC/A/S/230/210 OC/A/N/230/210	OC/A/S/255/240 OC/A/N/255/240

SKT + MKT

	Name of the component	Length	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	Thermal insulation for end cap		OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
2.	Thermal insulation for SKT box	A ₁ -49 [mm] A ₂ -9 [mm]	OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240

SKT Nova

	Name of the component	Length	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	Thermal insulation for end cap		OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
2.	Thermal insulation for SKT box	A ₁ -49 [mm] A ₂ -9 [mm]	OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240

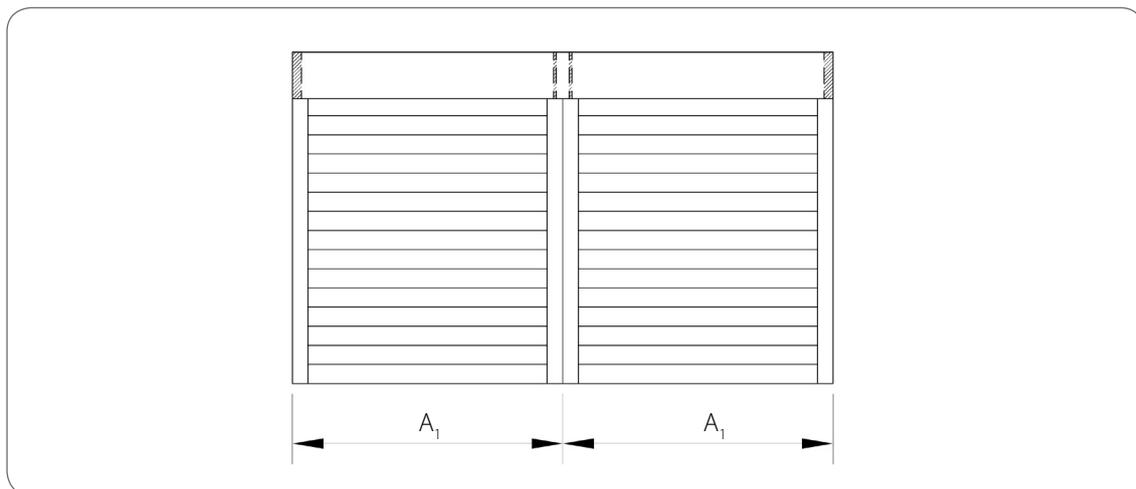
b) Roller shutter set with internal compound end caps.


SKT					
	Name of the component	Length	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	Thermal insulation for end cap		OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
2.	Thermal insulation for SKT box	A ₁ -89 [mm]	OC/A/S/230/170 OC/A/N/230/170	OC/A/S/230/210 OC/A/N/230/210	OC/A/S/255/240 OC/A/N/255/240

SKT + MKT					
	Name of the component	Length	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	Thermal insulation for end cap		OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
2.	Thermal insulation for SKT box	A ₁ -89 [mm]	OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240

SKT Nova					
	Name of the component	Length	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	Thermal insulation for end cap		OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
2.	Thermal insulation for SKT box	A ₁ -89 [mm]	OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240

c) Roller shutter set with double division wall.



SKT

	Name of the component	Length	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	Thermal insulation for end cap		OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
2.	Thermal insulation for division wall		OCP/S/230/170 OCP/N/230/170	OCP/S/230/210 OCP/N/230/210	OCP/S/255/240 OCP/N/255/240
3.	Thermal insulation for SKT box	$A_1 - 79$ [mm]	OC/A/S/230/170 OC/A/N/230/170	OC/A/S/230/210 OC/A/N/230/210 OC+/N/230/210	OC/A/S/255/240 OC/A/N/255/240 OC+/N/255/240

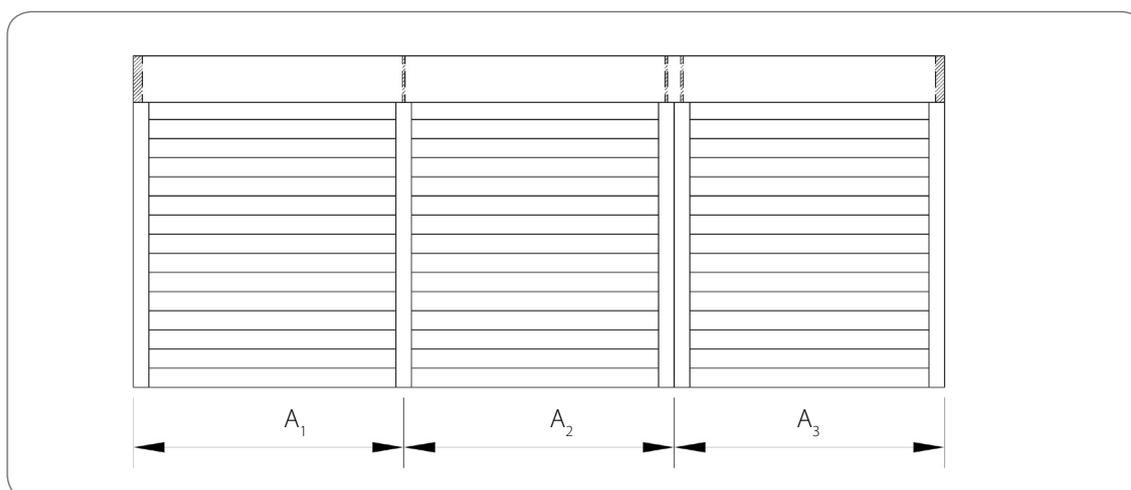
SKT + MKT

	Name of the component	Length	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	Thermal insulation for end cap		OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
2.	Thermal insulation for division wall		OCP/S/230/170 OCP/N/230/170	OCP/S/230/210 OCP/N/230/210	OCP/S/255/240 OCP/N/255/240
3.	Thermal insulation for SKT box	$A_1 - 79$ [mm]	OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240

SKT Nova

	Name of the component	Length	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	Thermal insulation for end cap		OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
2.	Thermal insulation for division wall		OCP/S/230/170 OCP/N/230/170	OCP/S/230/210 OCP/N/230/210	OCP/S/255/240 OCP/N/255/240
3.	Thermal insulation for SKT box	$A_1 - 79$ [mm]	OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240

d) Roller shutter set with single and double division wall.

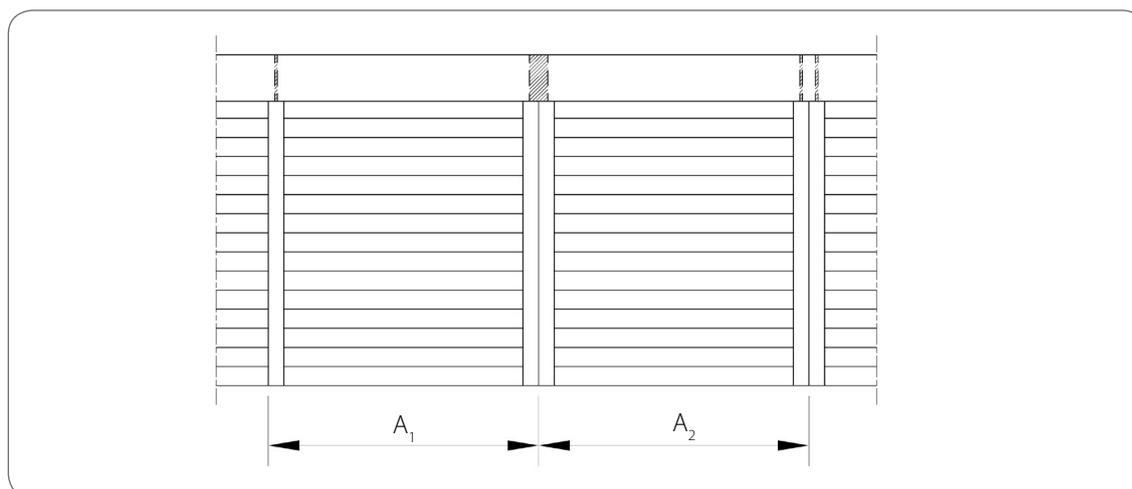


SKT					
	Name of the component	Length	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	Thermal insulation for end cap		OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
2.	Thermal insulation for division wall		OCP/S/230/170 OCP/N/230/170	OCP/S/230/210 OCP/N/230/210	OCP/S/255/240 OCP/N/255/240
3.	Thermal insulation for SKT box	A ₁ -49 [mm] A ₂ -39 [mm] A ₃ -79 [mm]	OC/A/S/230/170 OC/A/N/230/170	OC/A/S/230/210 OC/A/N/230/210	OC/A/S/255/240 OC/A/N/255/240

SKT + MKT					
	Name of the component	Length	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	Thermal insulation for end cap		OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
2.	Thermal insulation for division wall		OCP/S/230/170 OCP/N/230/170	OCP/S/230/210 OCP/N/230/210	OCP/S/255/240 OCP/N/255/240
3.	Thermal insulation for SKT box	A ₁ -49 [mm] A ₂ -39 [mm] A ₃ -79 [mm]	OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240

SKT Nova					
	Name of the component	Length	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	Thermal insulation for end cap		OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
2.	Thermal insulation for division wall		OCP/S/230/170 OCP/N/230/170	OCP/S/230/210 OCP/N/230/210	OCP/S/255/240 OCP/N/255/240
3.	Thermal insulation for SKT box	A ₁ -49 [mm] A ₂ -39 [mm] A ₃ -79 [mm]	OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240

e) Roller shutte set with single, double division wall and compound internal end caps.



SKT

	Name of the component	Length	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	Thermal insulation for end cap		OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
2.	Thermal insulation for division wall		OCP/S/230/170 OCP/N/230/170	OCP/S/230/210 OCP/N/230/210	OCP/S/255/240 OCP/N/255/240
3.	Thermal insulation for SKT box	A ₁ -49 [mm] A ₂ -79 [mm]	OC/A/S/230/170 OC/A/N/230/170	OC/A/S/230/210 OC/A/N/230/210 OC+/N/230/210	OC/A/S/255/240 OC/A/N/255/240 OC+/N/255/240

SKT + MKT

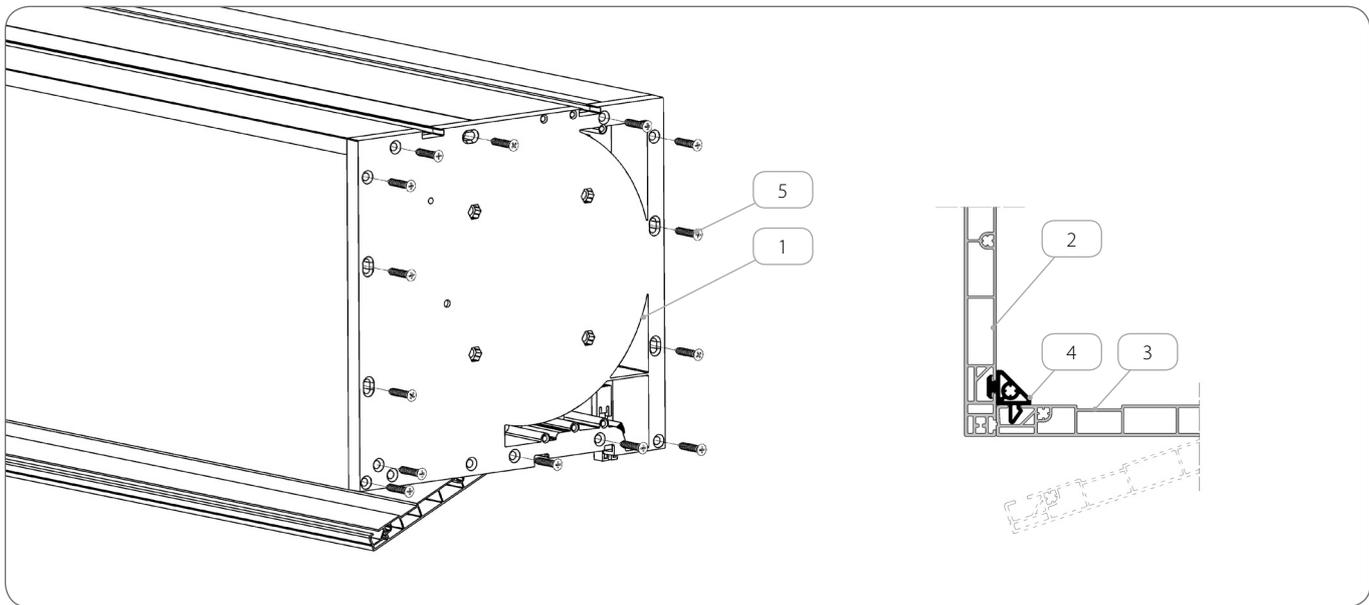
	Name of the component	Length	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	Thermal insulation for end cap		OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
2.	Thermal insulation for division wall		OCP/S/230/170 OCP/N/230/170	OCP/S/230/210 OCP/N/230/210	OCP/S/255/240 OCP/N/255/240
3.	Thermal insulation for SKT box	A ₁ -49 [mm] A ₂ -79 [mm]	OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240

SKT Nova

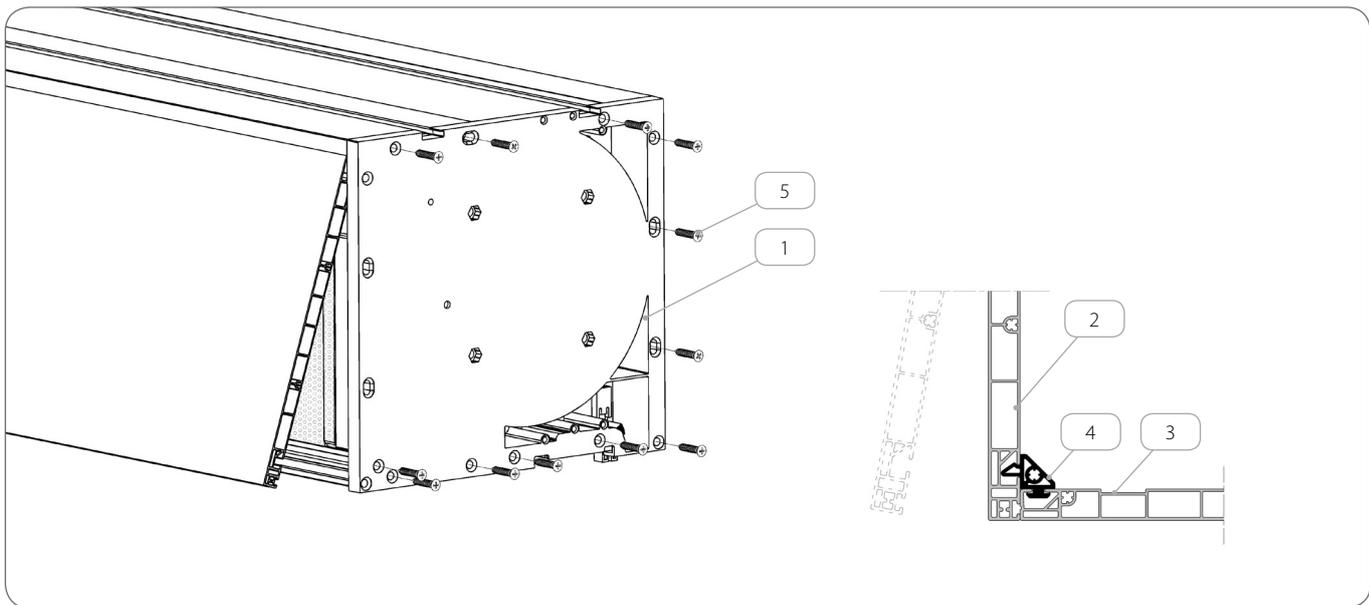
	Name of the component	Length	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	Thermal insulation for end cap		OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
2.	Thermal insulation for division wall		OCP/S/230/170 OCP/N/230/170	OCP/S/230/210 OCP/N/230/210	OCP/S/255/240 OCP/N/255/240
3.	Thermal insulation for SKT box	A ₁ -49 [mm] A ₂ -79 [mm]	OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240

7.6. Installation of the box snap profile

Revision open from the bottom of the box



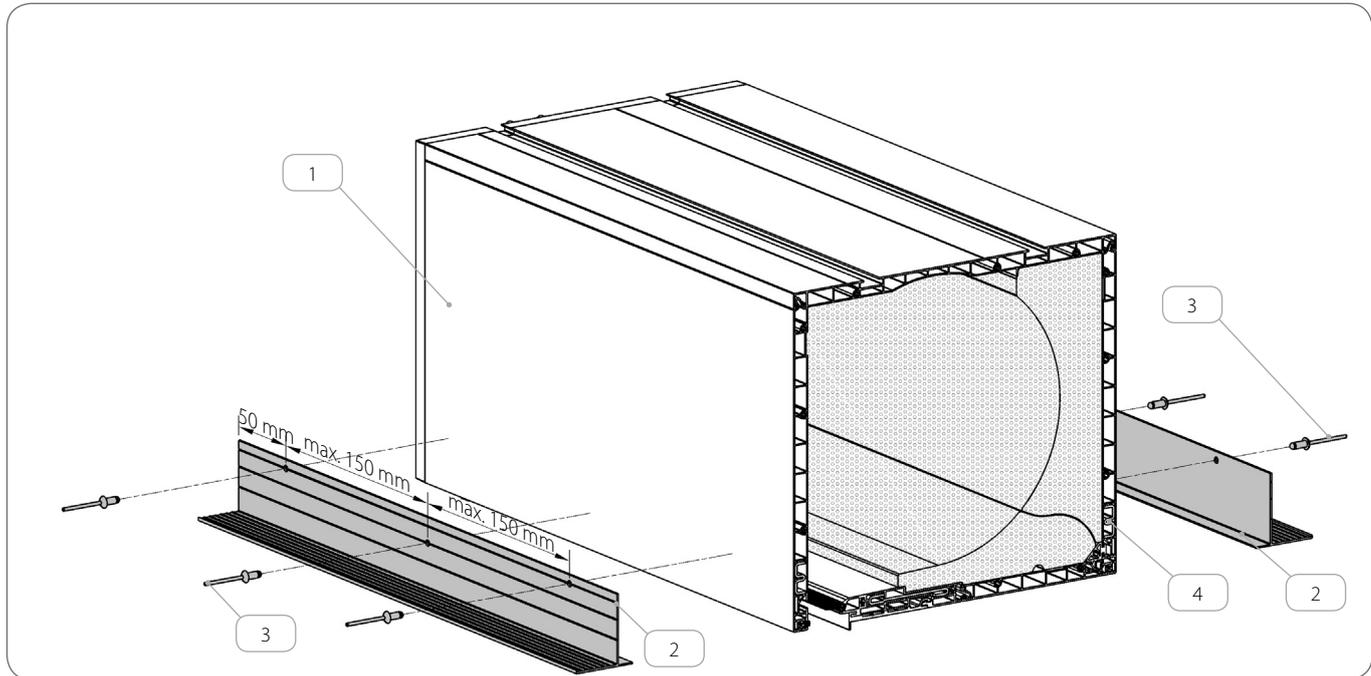
Revision open from the front of the box



Name of the component		Catalogue code		
		SKT230/170	SKT230/210	SKT255/240
1.	End cap	PB/230/170 PBM/230/170 PBM/W/230/170	PB/230/210 PBM/230/210 PBM/W/230/210	PB/255/240 PBM/255/240 PBM/W/255/240
2.	SKT box - side profile / Oval shutter box side profile	PSB/170 PSBO/170	PSB/210 PSBO/210	PSB/240 PSBO/240
3.	Shutter box base revision profile	PSRD/100		PSRD/125
4.	Box snap profile	PSZ		
5.	Galvanized screw 4,2 x 25 mm	WKR/Zn/S/4,2x25		

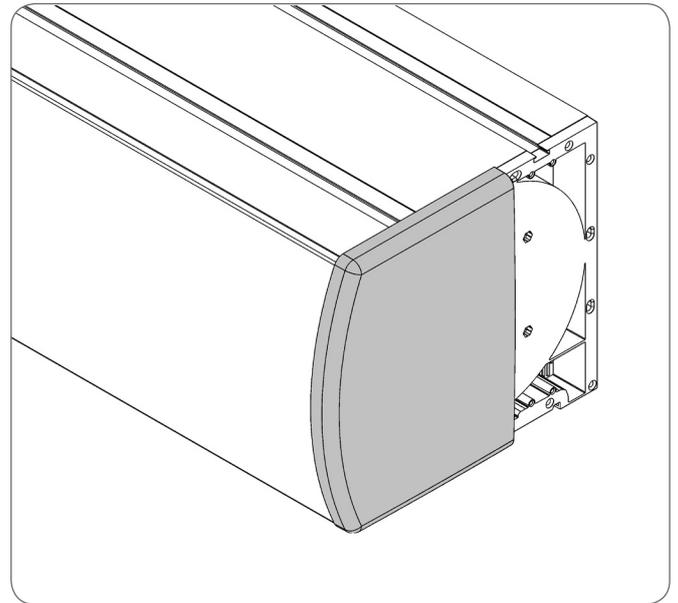
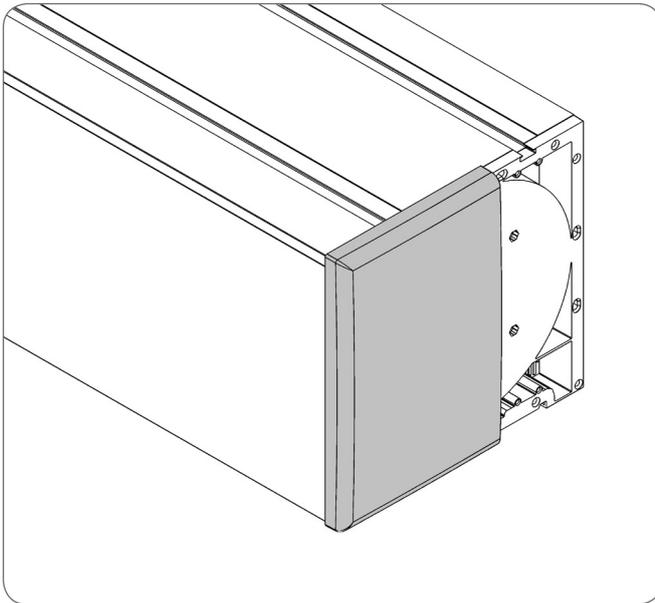
7.7. Installation of the plaster foundation and list of components

Support **NT** should be riveted to WSB side steel reinforcement.

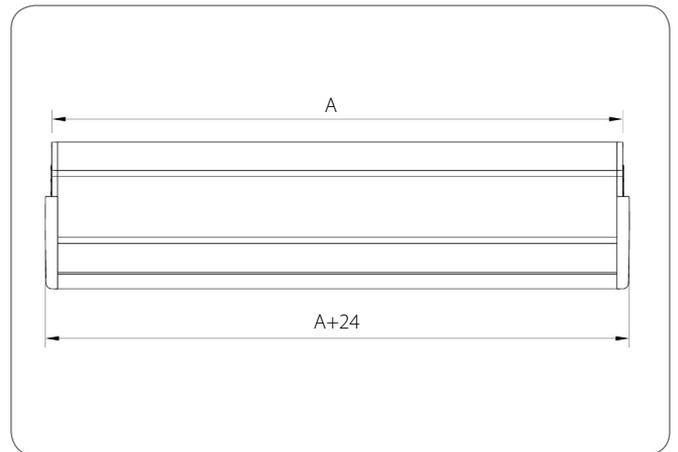
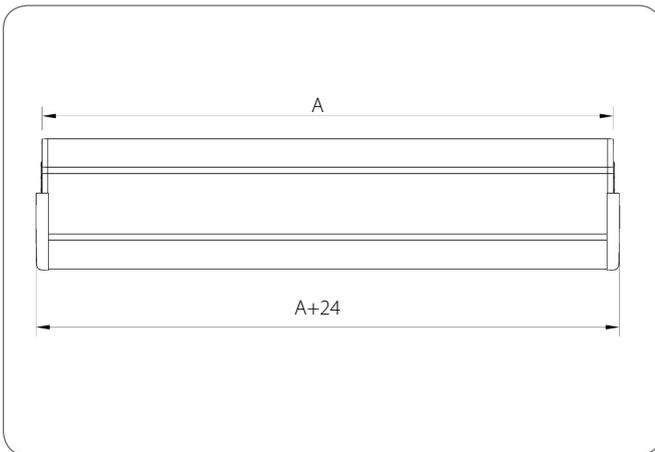


Name of the component	Length	Quantity	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1. SKT box - side profile			PSB/170	PSB/210	PSB/240
2. Support	A [mm]	1 or 2 [pcs.]	NT/23/10, NT/45/10, NT/45/30, NT/45/45, NT/45/105		
3. Aluminium rivets 4 x 8 mm		$\lceil (A-100)/150+1 \rceil \times \text{QUANTITY}_{\text{NT}}$ [pcs.]	PN4x8		
4. Side steel reinforcement	A-20 [mm]	1 or 2 [pcs.]	WSB		
<p>! In order to improve adhesion of plaster it is recommended sticking NT/XPS plaster foundation on the box.</p>					
5. Plaster foundation	A-20 [mm]	1 or 2 [pcs.]	NT/XPS/8, NT/XPS/10, NT/XPS/16, NT/XPS/22		

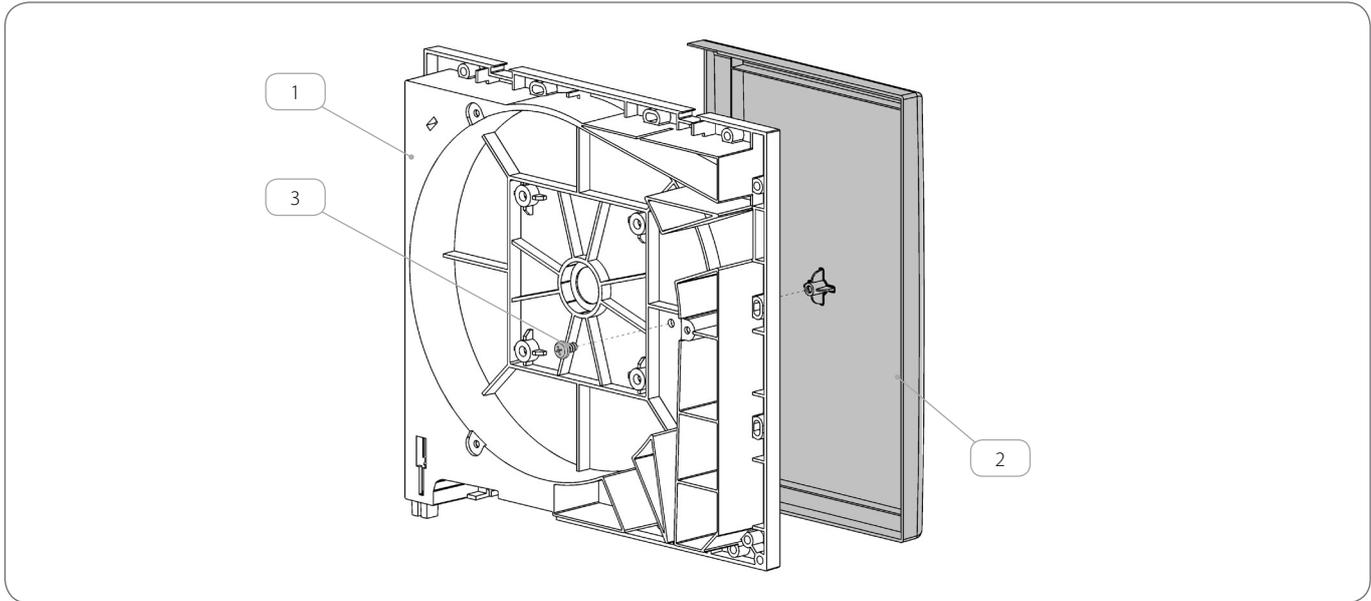
7.8. Installation of the masks for end cap



Box dimensions with mask for the end cap (top view):

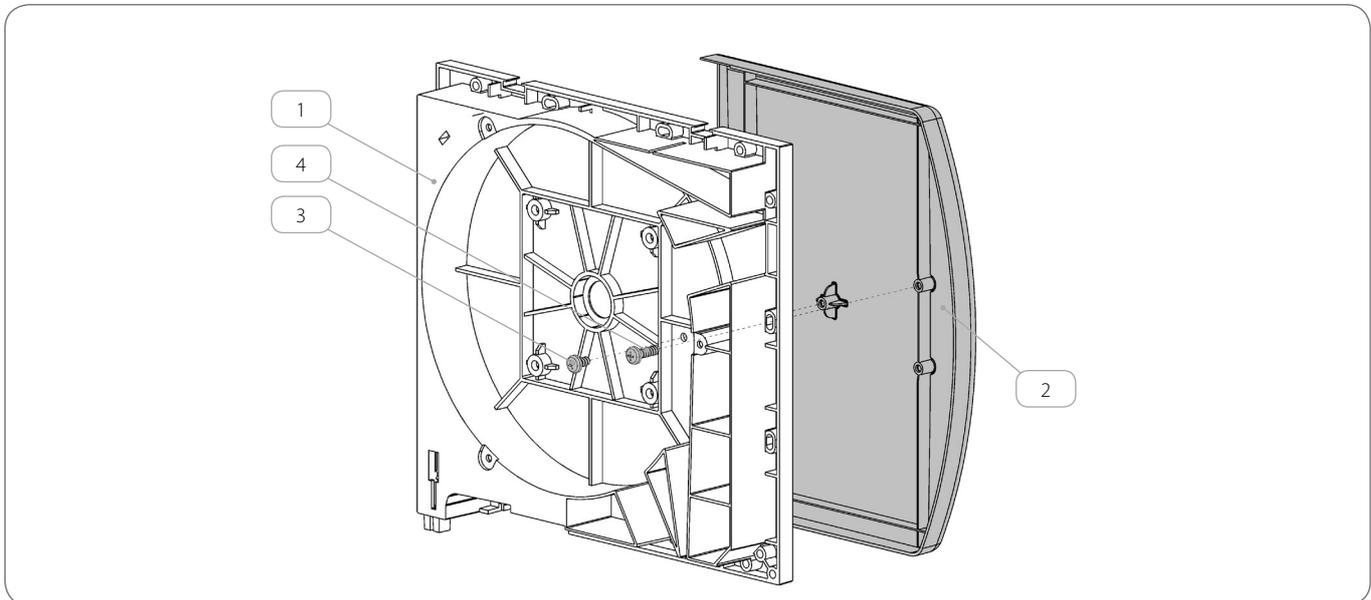


Mask for the end cap NPB



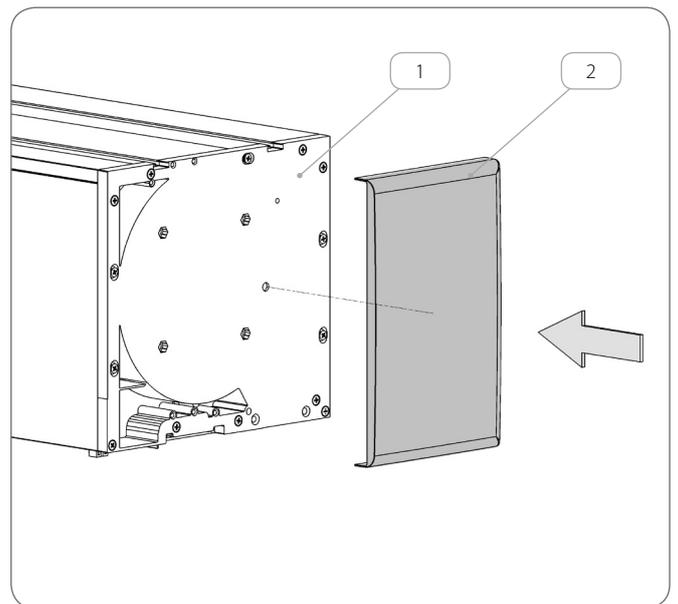
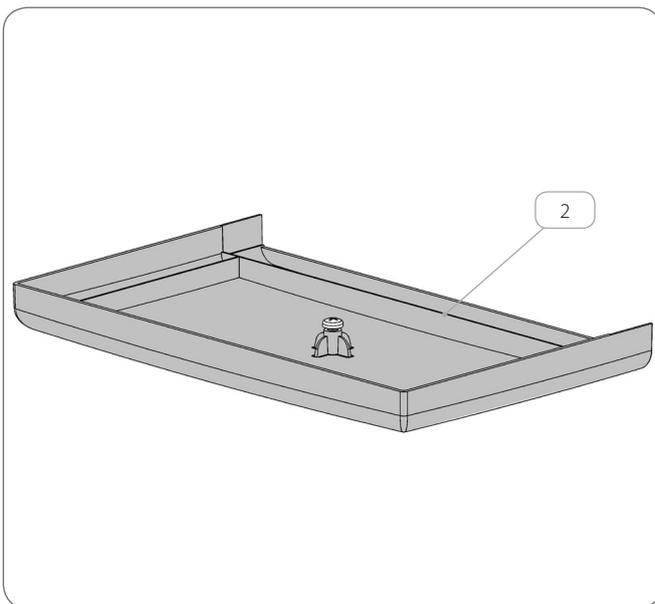
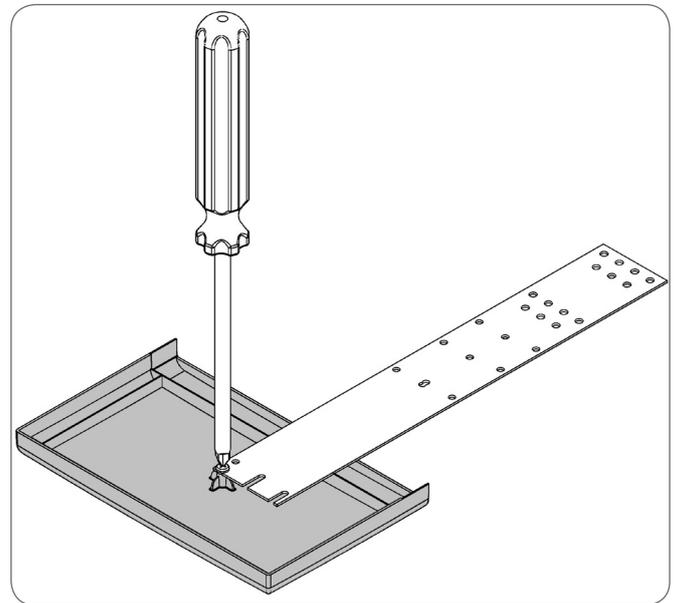
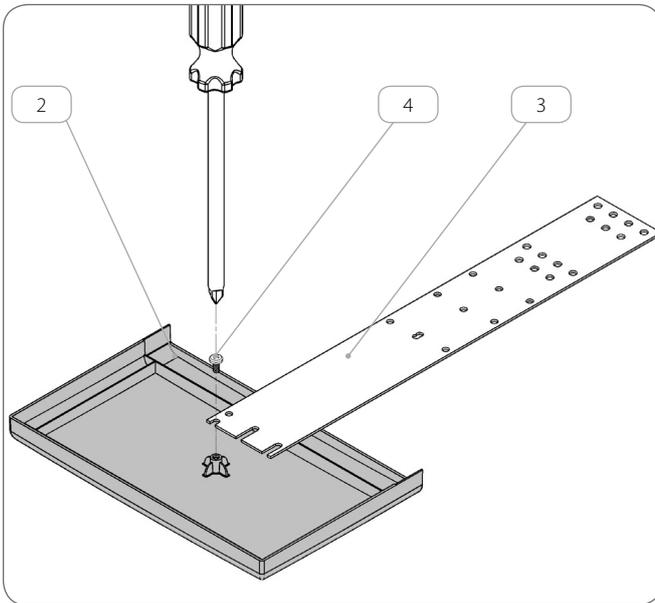
Name of the component	Quantity	Catalogue code		
		SKT230/170	SKT230/210	SKT255/240
1. End cap	1 [pair]	PB/230/170 PBM/230/170 PBM/W/230/170	PB/230/210 PBM/230/210 PBM/W/230/210	PB/255/240 PBM/255/240 PBM/W/255/240
2. Mask for the end cap of the shutter box SKT	2 [pcs.]	NPB/230/170	NPB/230/210	NPB/255/240
3. Galvanized screw 4 x 8 mm	2 [pcs.]	WKR/Zn/W/4x8		

Oval mask for the end cap NOPB



Name of the component	Quantity	Catalogue code		
		SKT230/170	SKT230/210	SKT255/240
1. End cap	1 [pair]	PB/230/170 PBM/230/170 PBM/W/230/170	PB/230/210 PBM/230/210 PBM/W/230/210	PB/255/240 PBM/255/240 PBM/W/255/240
2. Oval mask for the end cap of the shutter box SKT	2 [pcs.]	NOPB/230/170	NOPB/230/210	NOPB/255/240
3. Galvanized screw 4 x 8 mm	2 [pcs.]	WKR/Zn/W/4x8		
4. Galvanized screw 4 x 16 mm	2 [pcs.]	WKR/Zn/W/4x16		

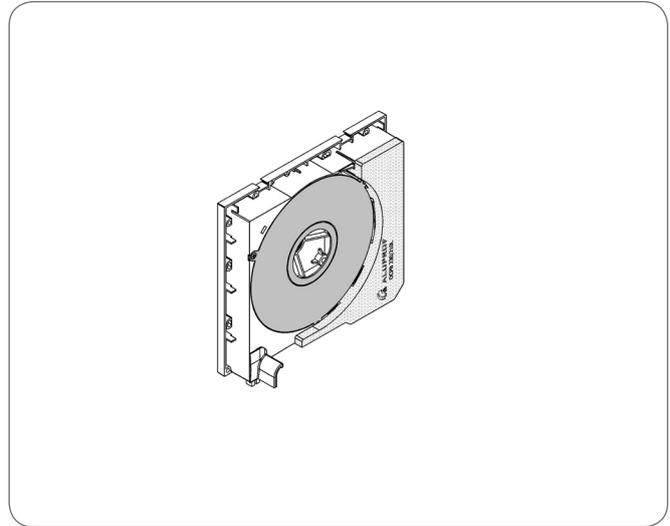
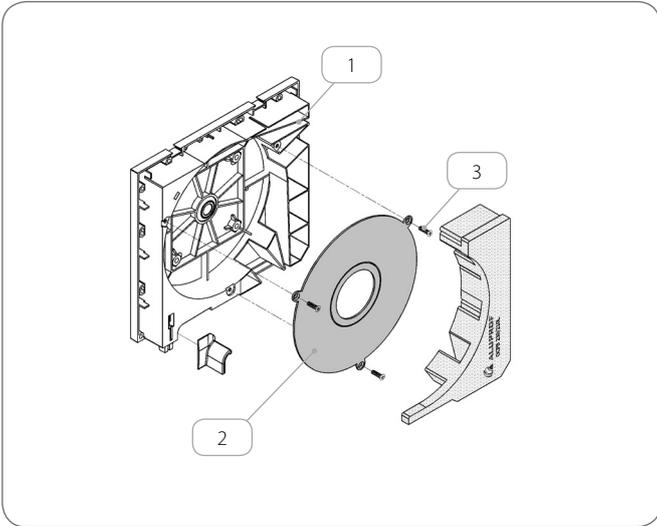
⚠ As an alternative **NPB** and **NOPB** masks for the end cap can be snapped on the end cap. Place **WKR/Zn/W/4x8** screw in the hole located on the mask and tighten, use **LPB-RO** as a distance. Next mount the mask in the way that the head of the screw will snap on into the hole in the end cap.



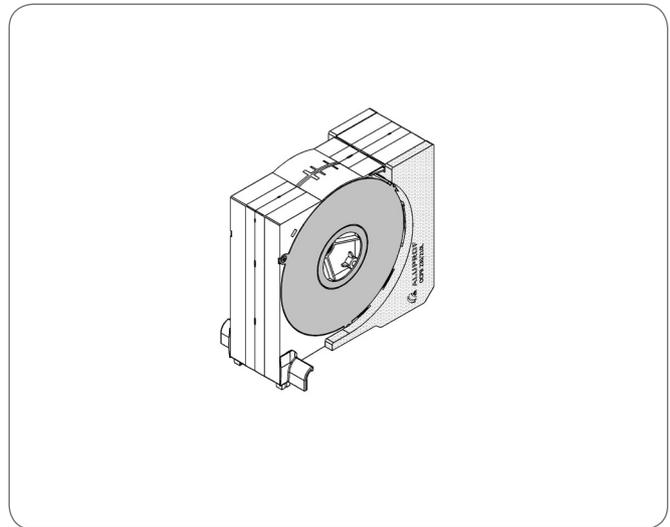
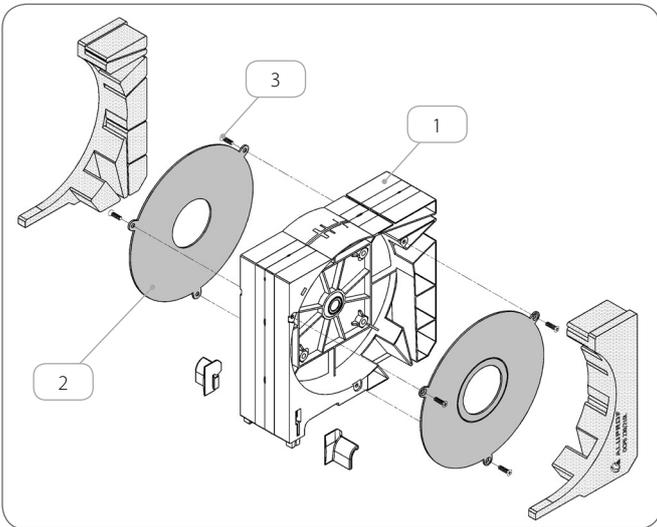
	Name of the component	Quantity	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	End cap	1 [pair]	PB/230/170 PBM/230/170 PBM/W/230/170	PB/230/210 PBM/230/210 PBM/W/230/210	PB/255/240 PBM/255/240 PBM/W/255/240
2.	Mask for the end cap of the shutter box SKT	2 [pcs.]	NPB/230/170 NOPB/230/170	NPB/230/210 NOPB/230/210	NPB/255/240 NOPB/255/240
3.	End cap to window frame connector		LPB-RO		
4.	Galvanized screw 4 x 8 mm	2 [pcs.]	WKR/Zn/W/4x8		

7.9. Installation of cover plate

PO cover plates can be used as an option for **PB, PBM, PBM/W** end caps, and **PBW, PBMW** and **PBMW/W** compound internal end caps.



Name of the component	Quantity	Catalogue code		
		SKT230/170	SKT230/210	SKT255/240
1. End cap	1 [pair]	PB/230/170 PBM/230/170 PBM/W/230/170	PB/230/210 PBM/230/210 PBM/W/230/210	PB/255/240 PBM/255/240 PBM/W/255/240
2. Cover plate	2 [pcs.]	PO/120	PO/170	PO/195
3. Galvanized screw 4,2 x 16 mm	6 [pcs.]	WKR/Zn/S/4,2x16		



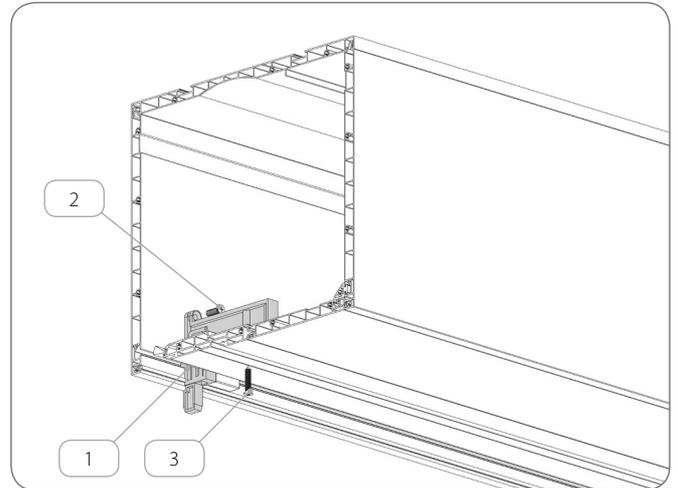
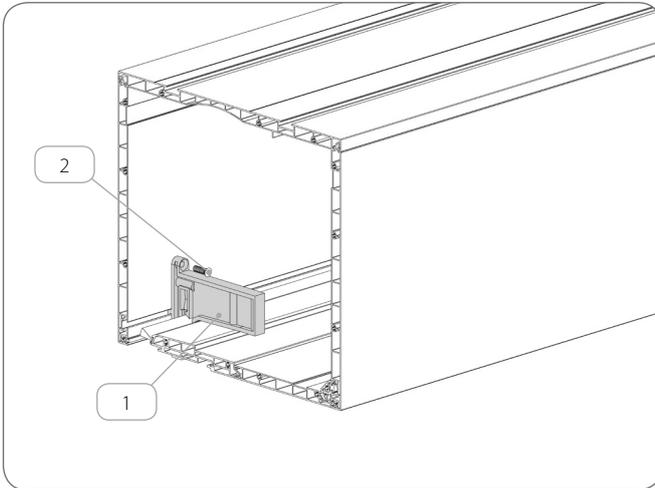
Name of the component	Quantity	Catalogue code		
		SKT230/170	SKT230/210	SKT255/240
1. Compound internal end caps		PBW/230/170 PBMW/230/170 PBMW/W/230/170	PBW/230/210 PBMW/230/210 PBMW/W/230/210	PBW/255/240 PBMW/255/240 PBMW/W/255/240
2. Cover plate	2 x QUANTITY _{PBW} [pcs.]	PO/120	PO/170	PO/195
3. Galvanized screw 4,2 x 16 mm	2 x QUANTITY _{PO} [pcs.]	WKR/Zn/S/4,2x16		

7.10. Entry guide adapter

The **AS SKT** entry guide adapter allows to extend the SKT Opoterm shutter box in comparison to the window.

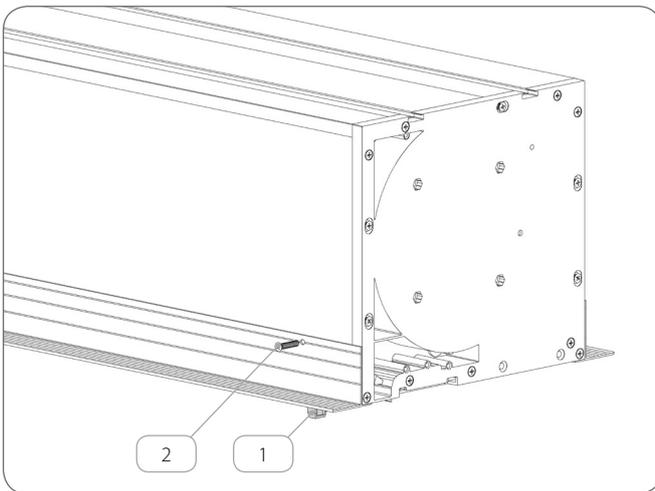
Mounting the entry guide in the shutter box

Adapter should be screwed from the inside of the box through the **PSB** profile using the **WKR/Zn/S/4,2x16** screws and from the outside through the base profile **PSD** using **WKR/Zn/S/4,2x25**.



	Name of the component	Quantity		Catalogue code		
		with box extension on one side	with double sided box extension	SKT230/170	SKT230/210	SKT255/240
1.	Entry guide adapter	1 [pcs.]	2 [pcs.]	ASSKT		
2.	Galvanized screw 4,2 x 16 mm	1 [pcs.]	2 [pcs.]	WKR/Zn/S/4,2x16		
3.	Galvanized screw 4,2 x 25 mm	1 [pcs.]	2 [pcs.]	WKR/Zn/S/4,2x25		

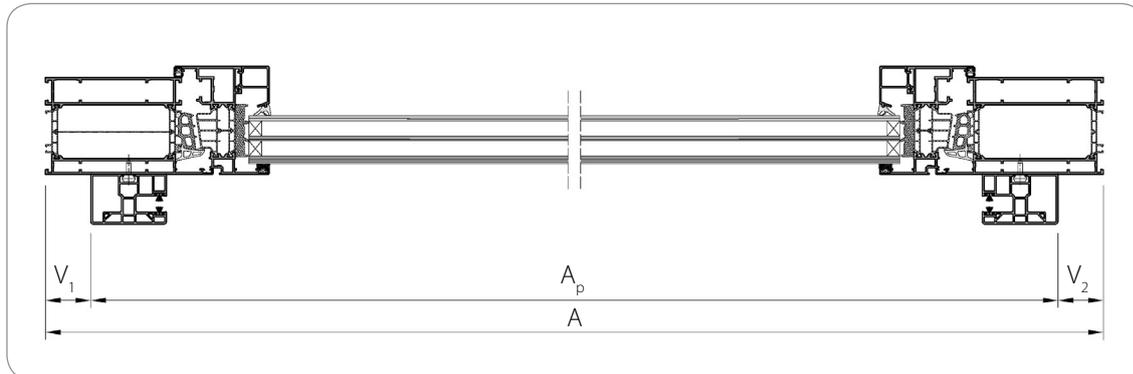
The adapter can also be fix through the support using **WKR/Zn/S/4,2x25** screw.



	Name of the component	Quantity		Catalogue code		
		with box extension on one side	with double sided box extension	SKT230/170	SKT230/210	SKT255/240
1.	Entry guide adapter	1 [pcs.]	2 [pcs.]	ASSKT		
2.	Galvanized screw 4,2 x 25 mm	1 [pcs.]	2 [pcs.]	WKR/Zn/S/4,2x25		

Minimum and maximum value of the extension

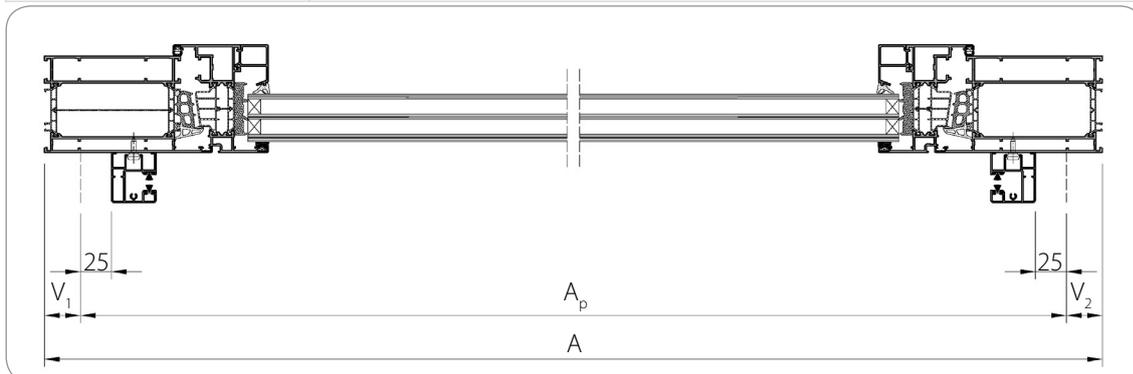
SKT	PP60/12, PP60/17, PPD60/12, PPD60/17, PPDA60/12, PPDA60/17
SKT NOVA	PPDMW60/12, PPDMW60/17, PPDAMW60/12, PPMO60/12, PPMO60/17



	V_1 [mm]	V_2 [mm]	V_1+V_2 [mm]
minimum value	35	35	35
maximum value	180	180	180

! If the end cap pin is cut off the minimum value of box extension is 10 mm.

SKT	PPA35/12, PPA35/17
-----	--------------------



	V_1 [mm]	V_2 [mm]	V_1+V_2 [mm]
minimum value	10	10	20
maximum value	130	130	130

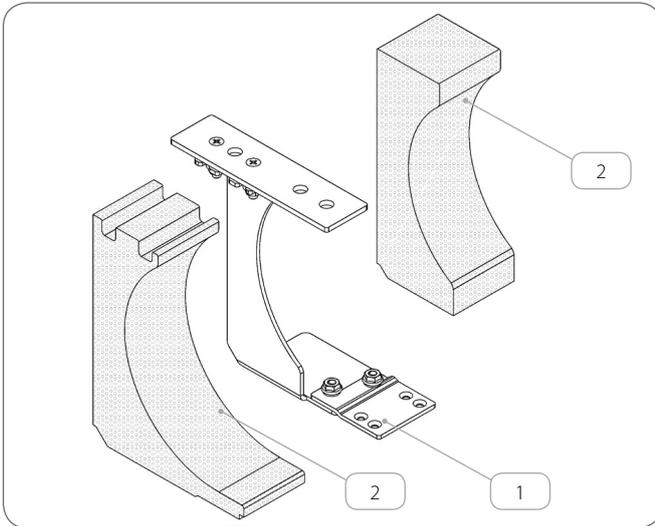
! If A box width is greater than W window/door width **SWT** telescopic reel should be used.

7.11. Shutter box steel reinforcement

⚠ Quantity of steel reinforcements should be determined by the designer of the window-and door frame-woodwork. Structural analysis considering wind load should be performed for the upper window/door frame. After calculating the required moment of inertia, select an appropriate reinforcement for the window frame and the quantity of required steel reinforcement.

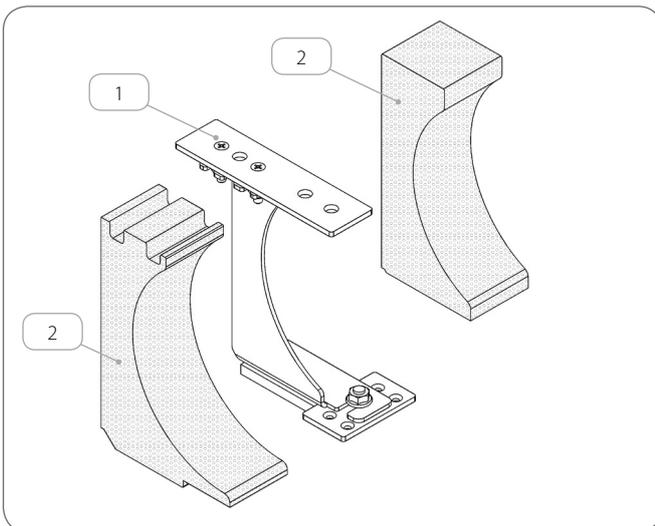
7.11.1. List of components

SKT



	Name of the component	Catalogue code		
		SKT230/170	SKT230/210	SKT255/240
1.	Shutter box steel reinforcement	WSS/230/170	WSS/230/210	WSS/255/240
2.	Thermal insulation of steel reinforcement WSS	OCWSS/N/230/170	OCWSS/N/230/210	OCWSS/N/255/240

SKT + MKT and SKT Nova

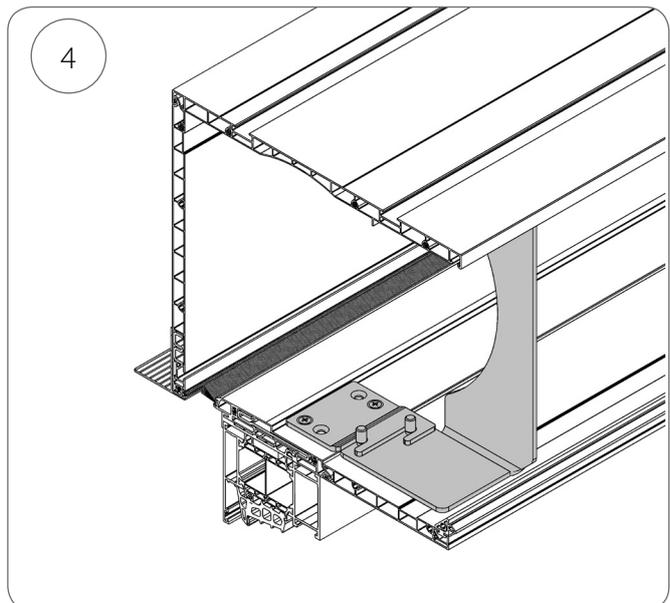
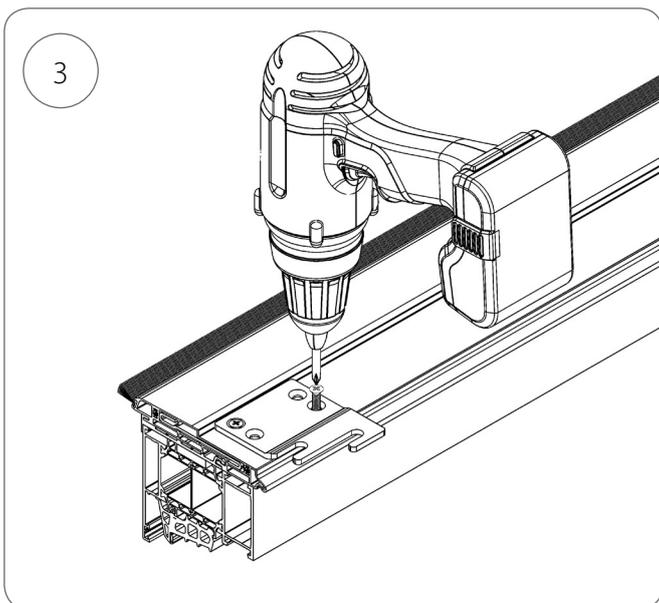
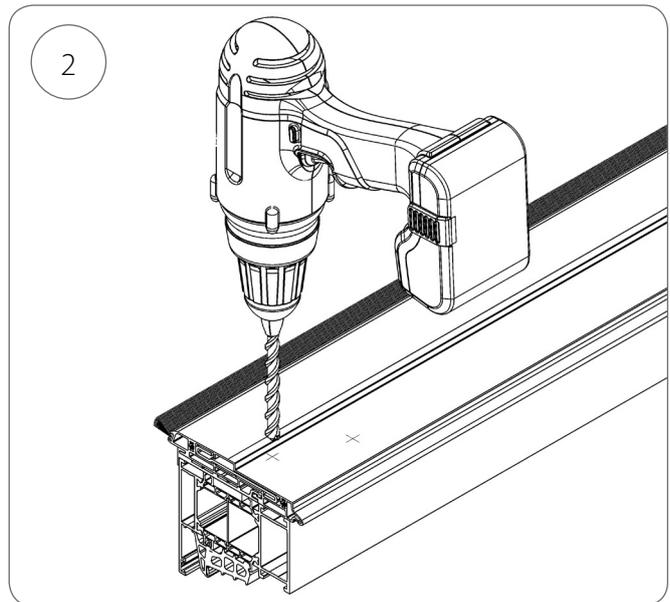
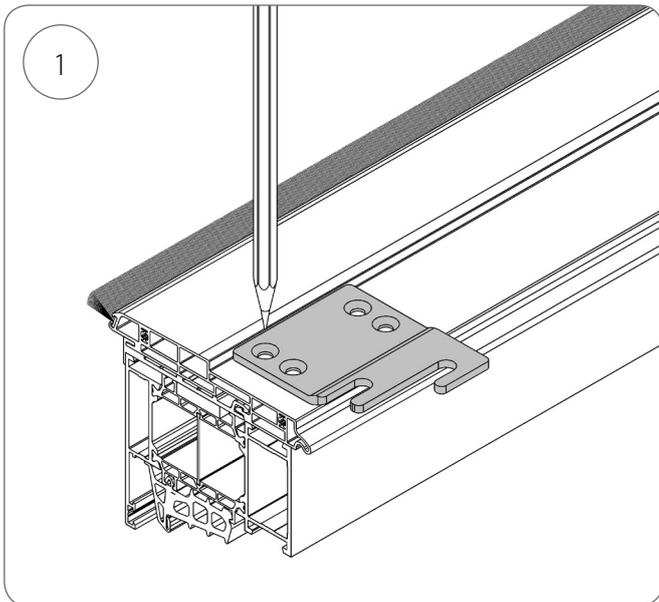


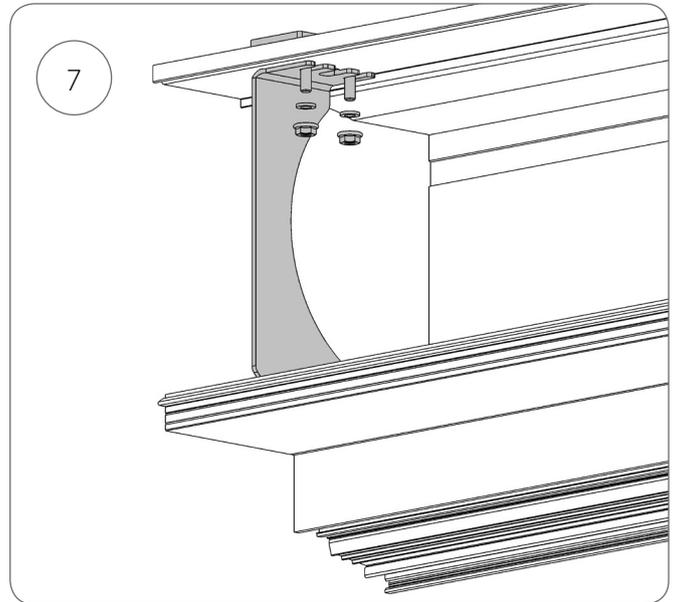
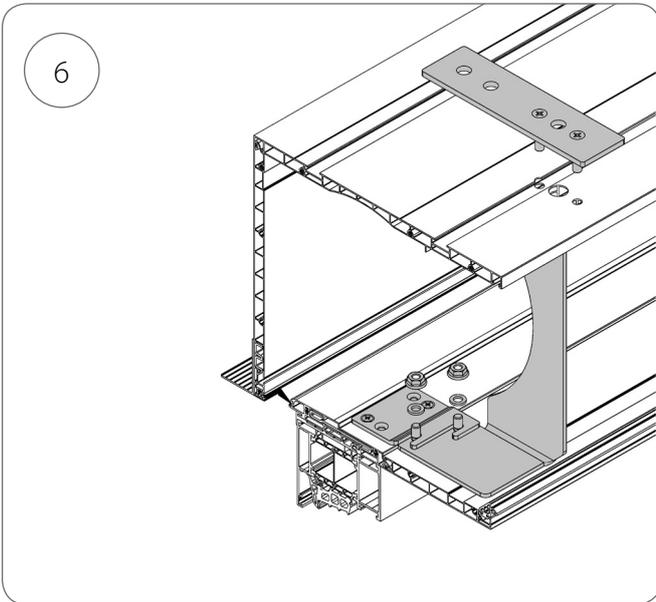
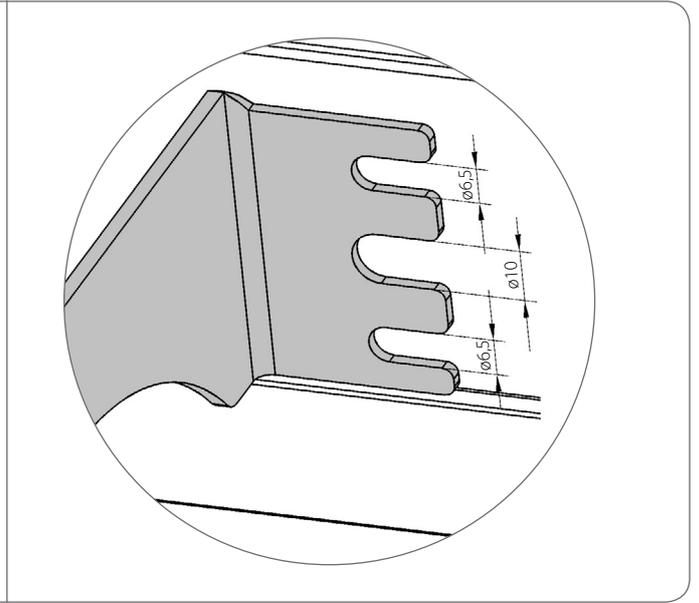
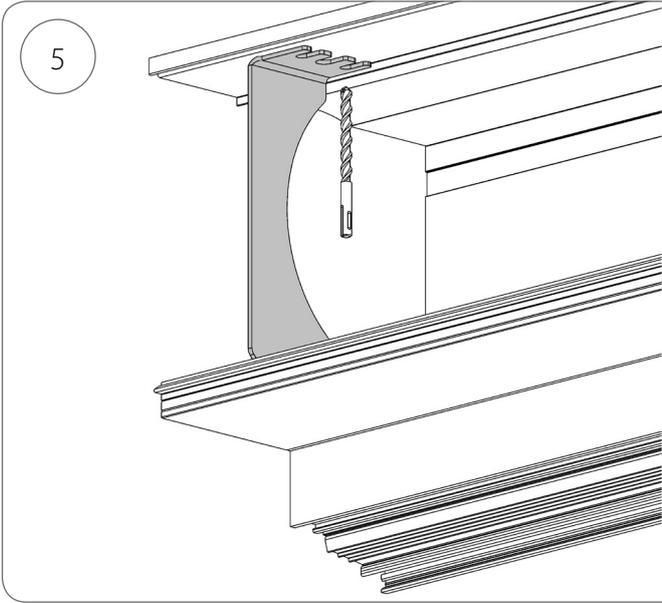
	Name of the component	Catalogue code		
		SKT230/170	SKT230/210	SKT255/240
1.	Shutter box MKT steel reinforcement	WSSM/230/170	WSSM/230/210	WSSM/255/240
2.	Thermal insulation of steel reinforcement WSSM	OCWSSM/N/230/170	OCWSSM/N/230/210	OCWSSM/N/255/240

7.11.2. Installation of shutter box reinforcement

Installation method

1. On the window frame set the reinforcement installation place. The bottom bracket place on the bottom profile and slide to the step.
2. Drill $\varnothing 3.5$ mm holes in the marked places.
3. Screw the bottom bracket. The length of the screws should be selected individually depending on the type of frame profile. Mount other components of the box, except revision profile.
4. Insert the steel reinforcement into the already screwed bottom plate and mark the location of two $\varnothing 6.5$ mm holes and one $\varnothing 10$ mm hole in the box-top profile.
5. Make holes in the box - top profile.
6. Place top bracket outside of the box.
7. Fasten all elements using nuts



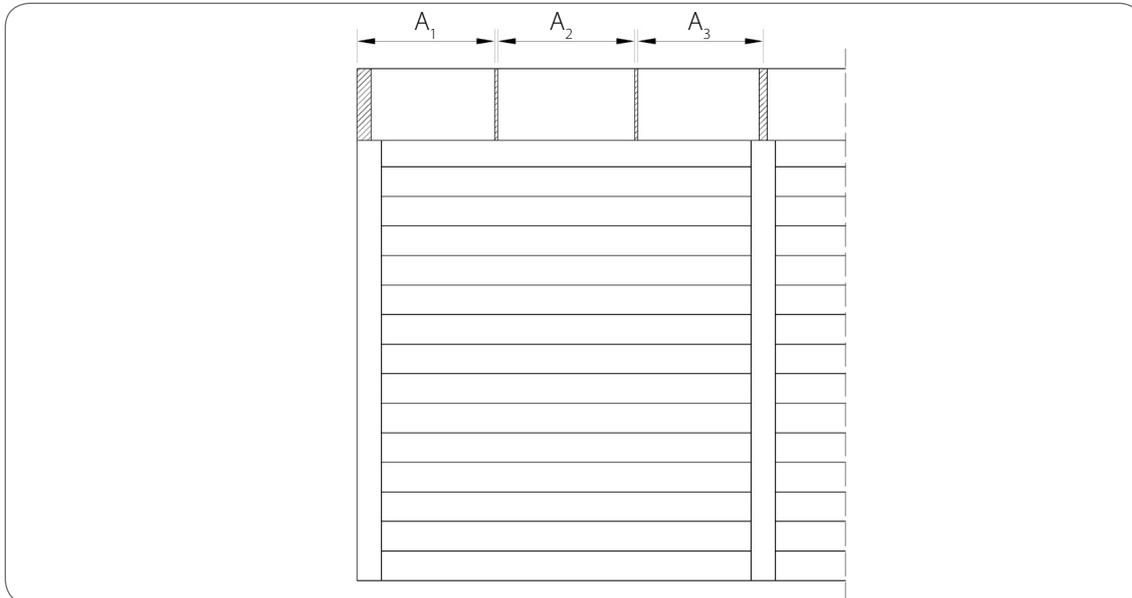


7.11.3. Cutting list and amount of insulation when using steel reinforcements.

Where:

 A_1 - Space from edge of the end cap to reinforcement

 A_2 - Space between WSS

 A_3 - Space from WSS to SP, SPM or SPM/W division wall

SKT

	Name of the component	Length	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	Thermal insulation for SKT box	A_1 -100 [mm] A_2 -110 [mm] A_3 -60 [mm]	OC/A/S/230/170 OC/A/N/230/170	OC/A/S/230/210 OC/A/N/230/210 OC+/N/230/210	OC/A/S/255/240 OC/A/N/255/240 OC+/N/255/240

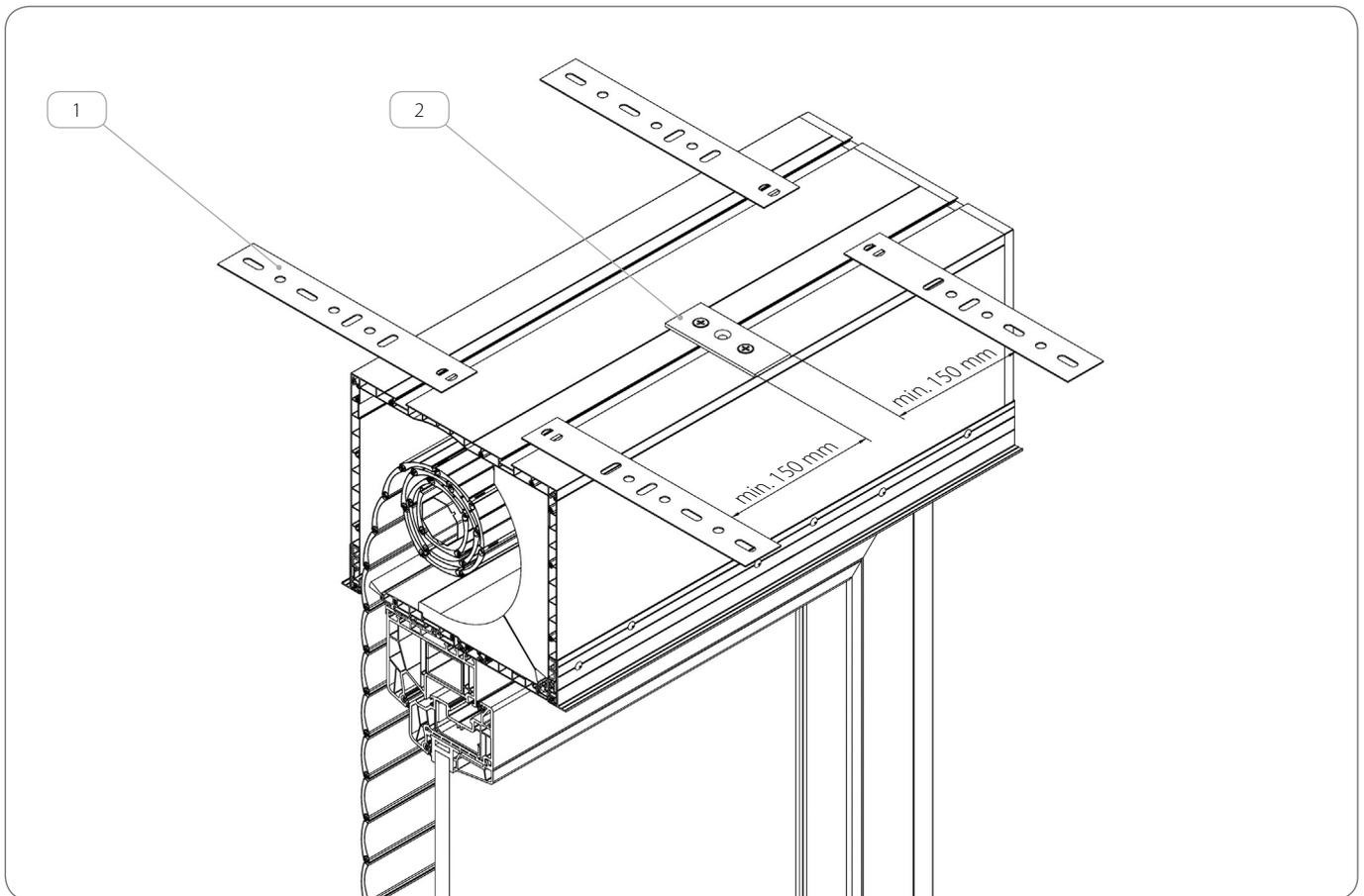
SKT + MKT

	Name of the component	Length	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	Thermal insulation for SKT box	A_1 -100 [mm] A_2 -110 [mm] A_3 -60 [mm]	OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240

SKT Nova

	Name of the component	Length	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	Thermal insulation for SKT box	A_1 -100 [mm] A_2 -110 [mm] A_3 -60 [mm]	OCM/A/S/230/170 OCM/A/N/230/170	OCM/A/S/230/210 OCM/A/N/230/210	OCM/A/S/255/240 OCM/A/N/255/240

7.12. Mounting anchor

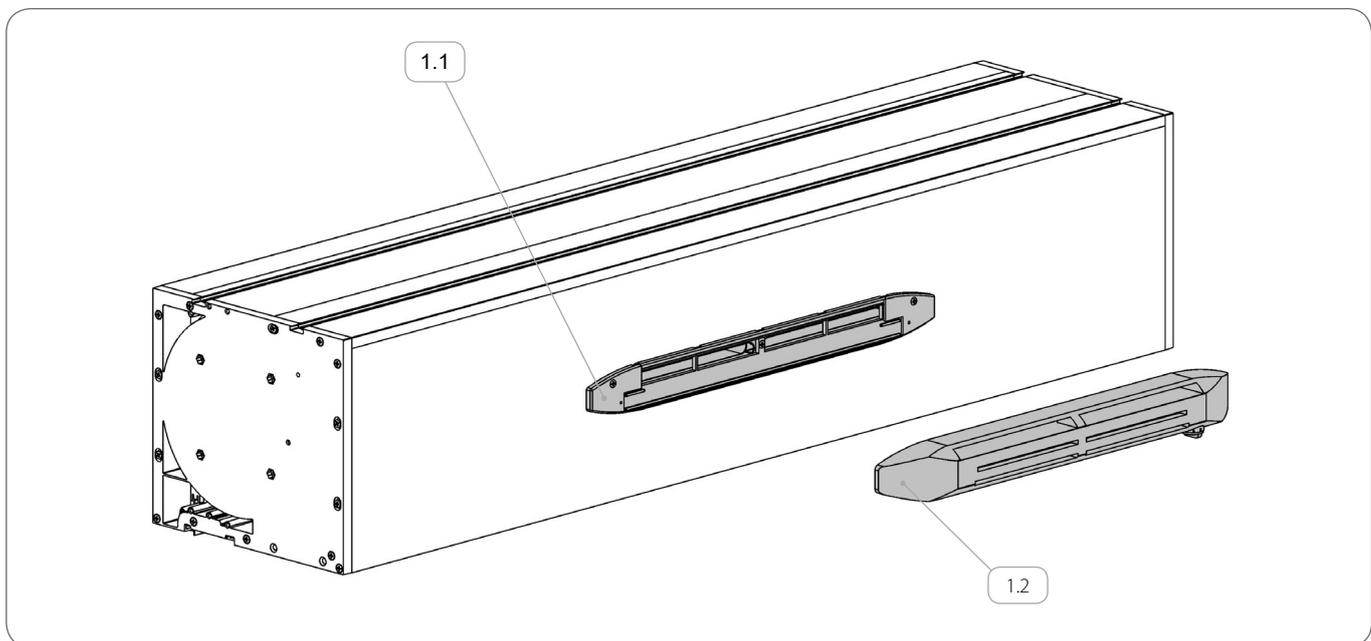
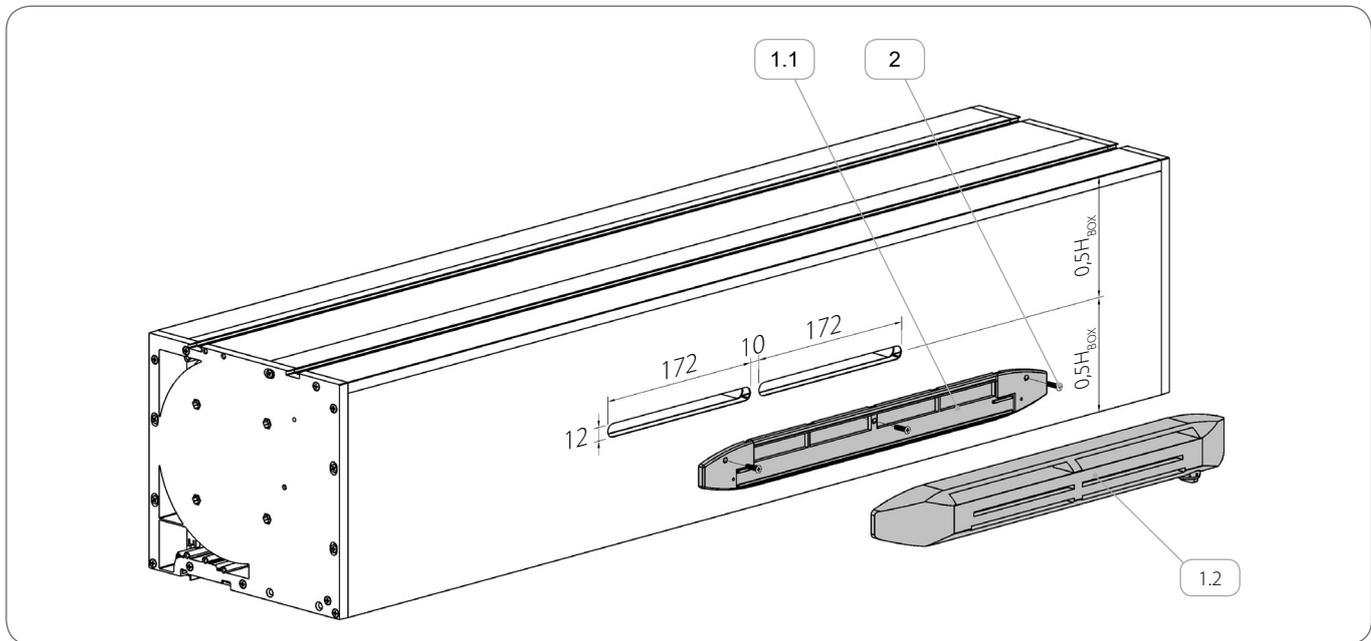


	Name of the component	Quantity	Catalogue code
1.	Mounting anchor	$[(A-1000)/500+3] \times 2 \geq 6$	KMO
2.	Shutter box steel reinforcement		WSS, WSSM

7.13. Installation of vent

Installation method

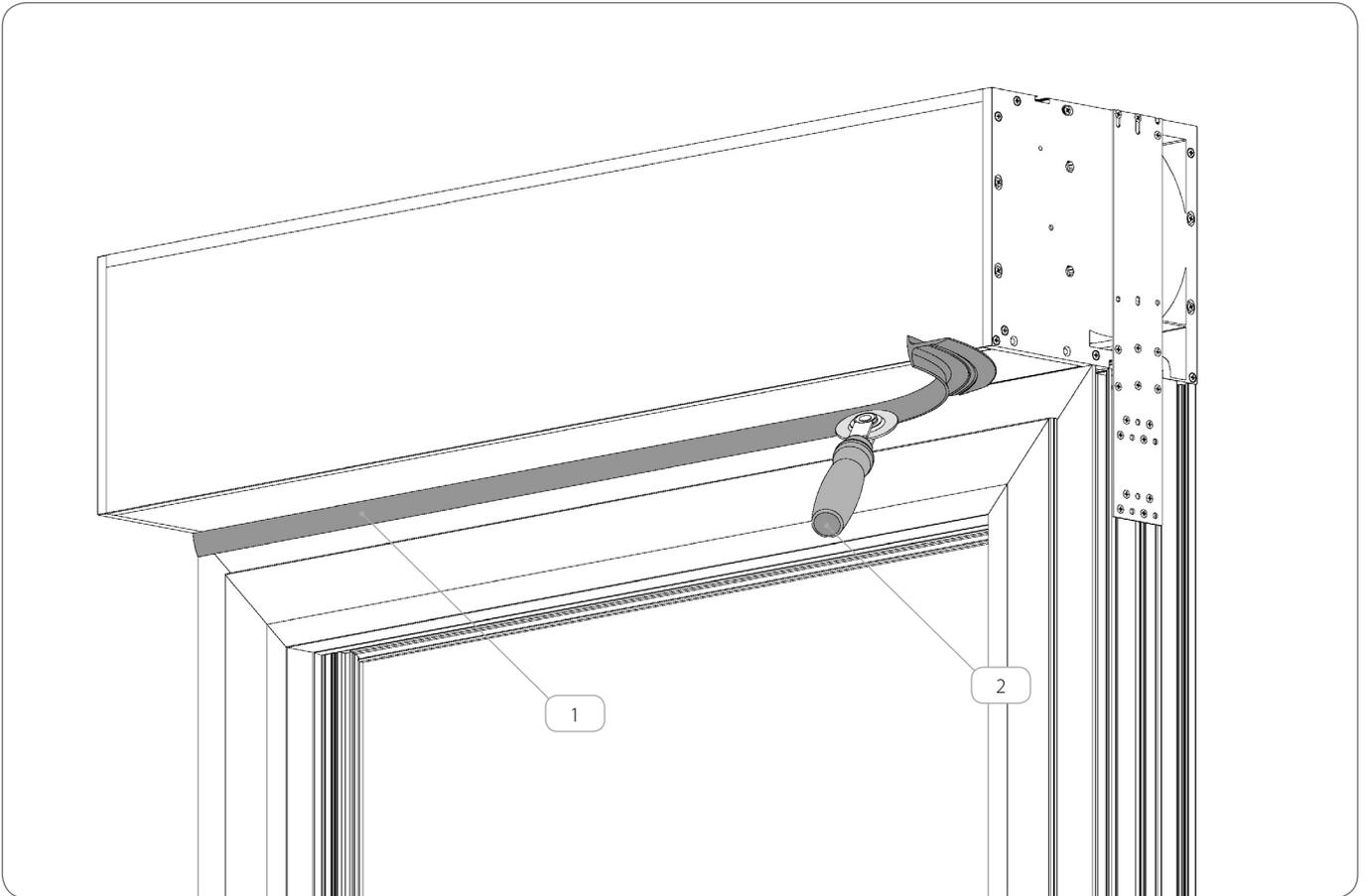
1. Prepare the holes in the side profile and thermal insulation according to the drawing below (make a one continuous hole in the thermal insulation).
2. Fix the mounting frame to the side profile by the provided screws.
3. Put and lock the vent regulator on the frame.



	Name of the component	Quantity	Catalogue code
1.	Vent	1 [pcs.]	NAHY
	1.1. Mounting frame		
	1.2. Regulator		
2.	Galvanized screw 4,2 x 25 mm	3 [pcs.]	WKR/Zn/S/4,2x25

7.14. Sealing gasket assembly

U/DS rubber seal should be used in order to seal the contact point between the window frame and the box.

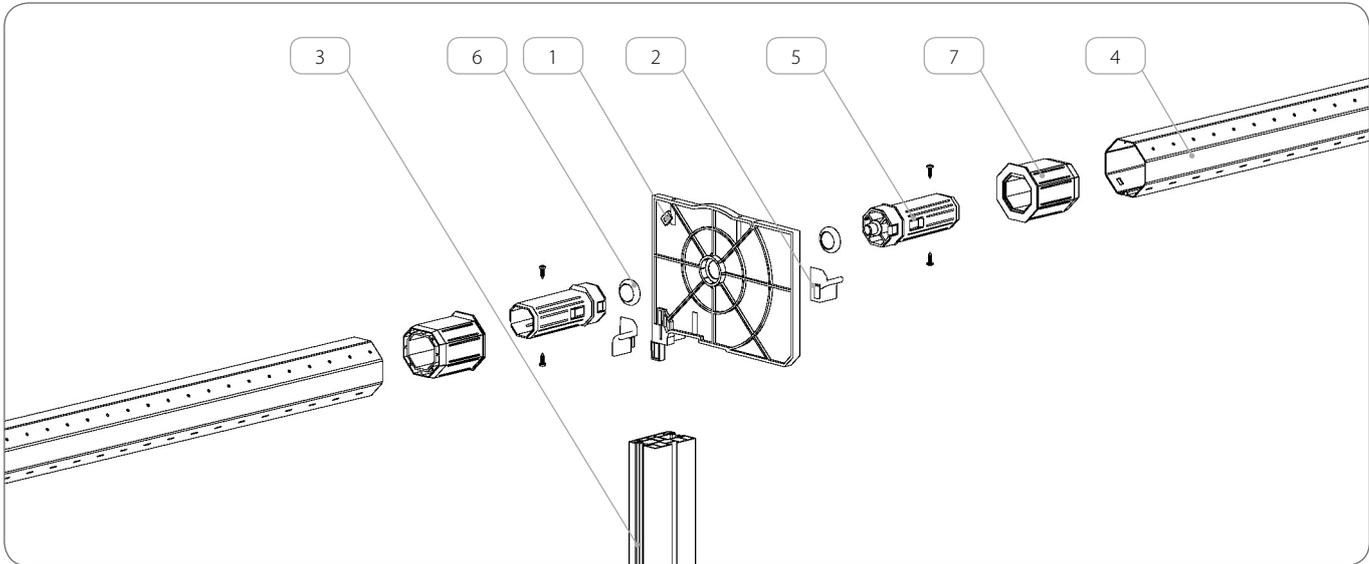


	Name of the component	Length	Quantity	Catalogue code
1.	Rubber seal	A	1 [pcs.]	U/DS
2.	Roll for pressing the mosquito seal		1 [pcs.]	RUM

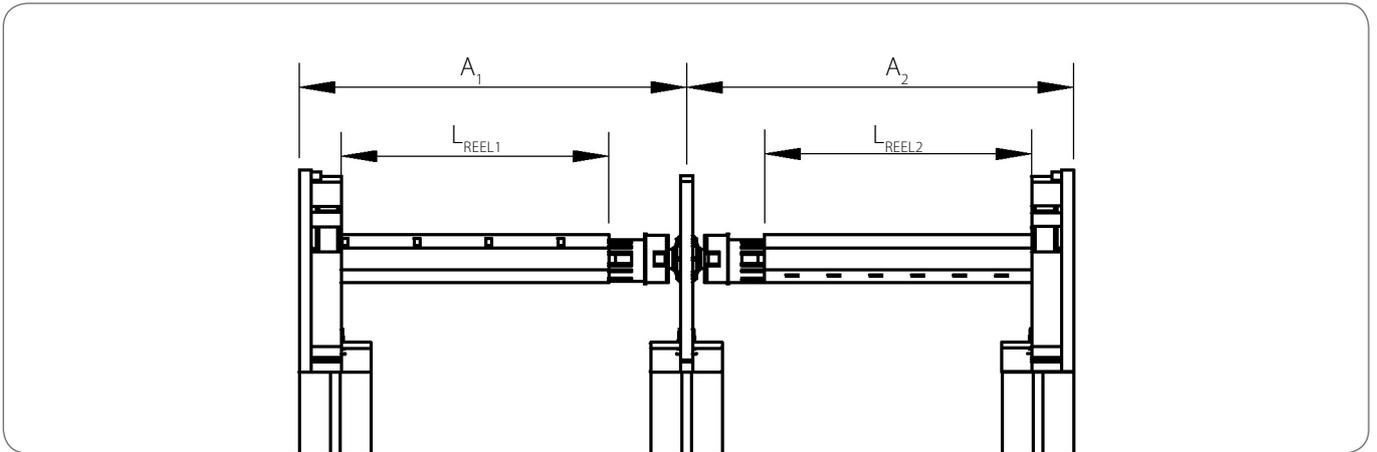
7.15. Installation of roller shutter division and list of components

7.15.1. Roller shutter set of the same height .

 Number of elements is defined for single division.



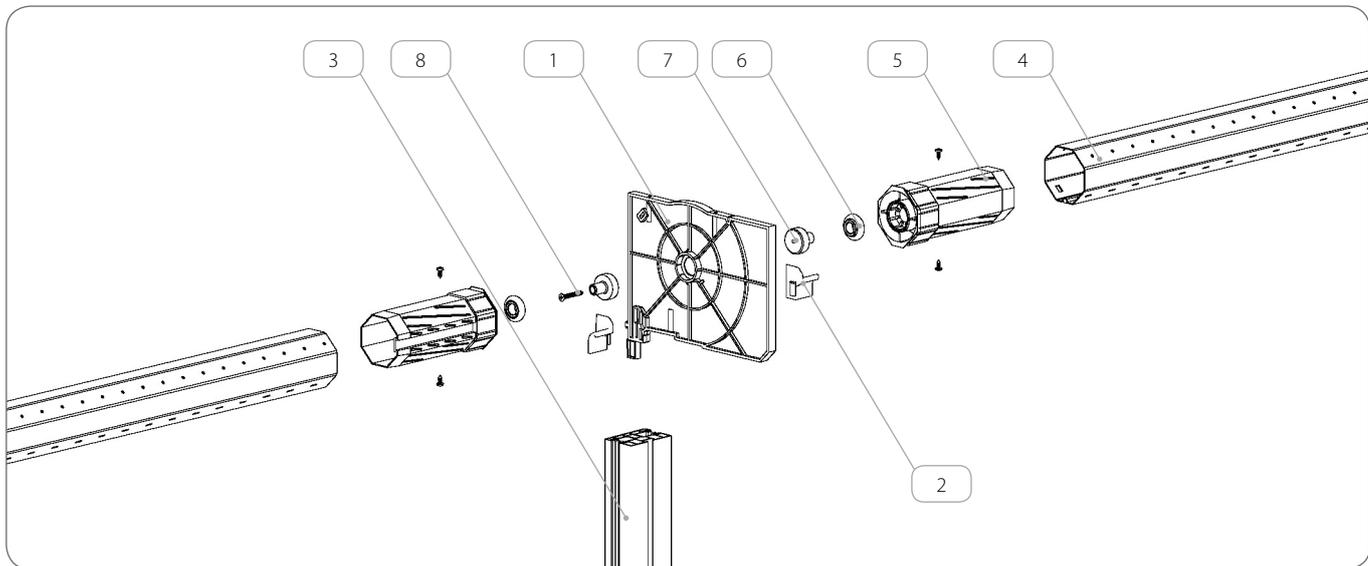
	Name of the component	Quantity	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	Division wall for shutter box SKT	1 [pcs.]			
	SKT		SP/230/170	SP/230/210	SP/255/240
	SKT+MKT		SPM/230/170	SPM/230/210	SPM/255/240
	SKT Nova		SPM/W/230/170	SPM/W/230/210	SPM/W/255/240
2.	Entry guide	1 [pair]			
	SKT		SLMI, SLMA		
	SKT+MKT		SLMI/A, SLMA/A		
	SKT Nova				
3.	Double guide channel - division	1 [pcs.]			
	SKT		PPD-P60/12, PPD-P60/17, PPDA-P60/12, PPDA-P60/17		
	SKT+MKT		PPDM-P60/12, PPDM-P60/17		
	SKT Nova		PPDMW-P60/12, PPDMW-P60/17, PPDAMW-P60/12, PPMO60/12, PPMO60/17		
4.	Octagonal galvanized steel reel	2 [pcs.]	SW4005, SW4006, SW5006, SW6006, SW6010		
5.	Cap	2 [pcs.]			
	SW40		OBSC40KN		
	SW50		OBS50OS		
	SW60		OBSC40KN		
6.	Ball bearing	2 [pcs.]	LO28		
7.	Reduction	2 [pcs.]			
	SW60		RED40/60		



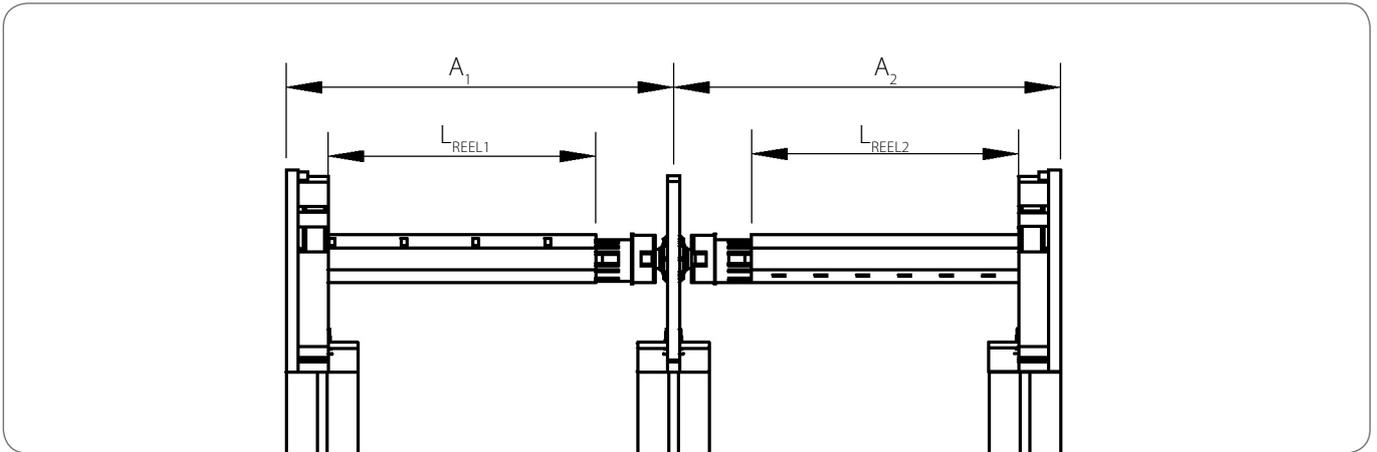
	Drive	Steel reel	Steel reel length
1.	KN pulley	SW4005, SW4006, SW5006, SW6006, SW6010	A₁ - 100 [mm] A₂ - 100 [mm]
2.	Gear mechanism ACEC		A₁ - 110 [mm] A₂ - 110 [mm]
3.	Gear mechanism MK		A₁ - 110 [mm] A₂ - 110 [mm]
4.	Motor		A₁ - 100 [mm] A₂ - 100 [mm]

7.15.2. Roller shutter set of the same height with pin.

 Number of elements is defined for single division.



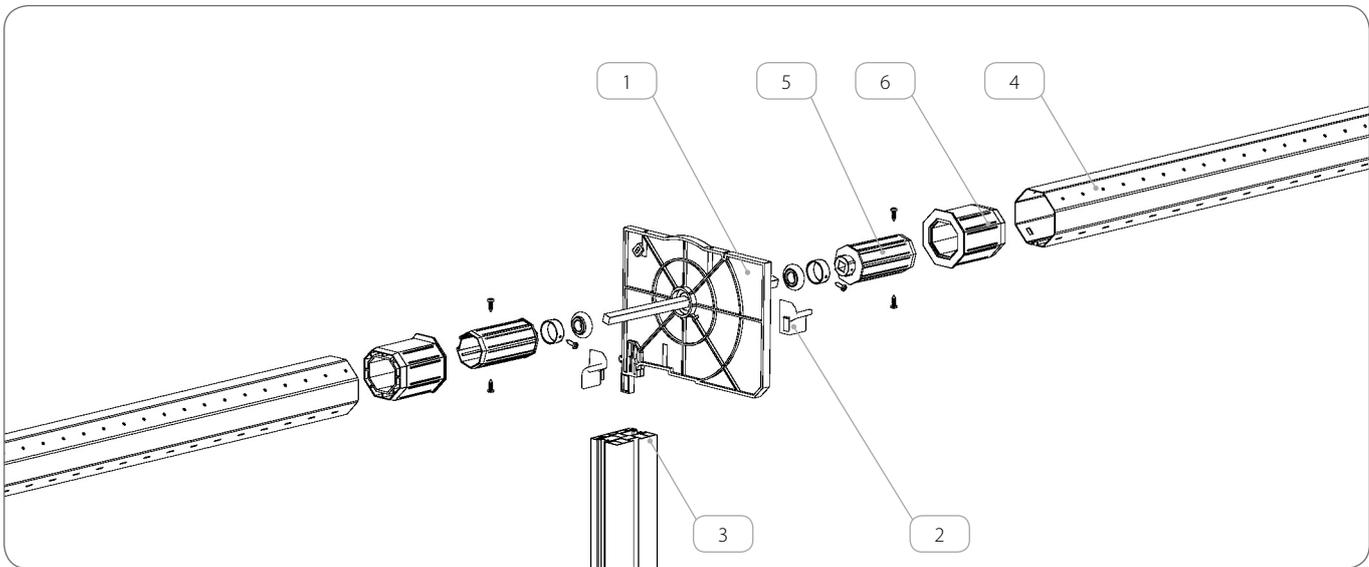
	Name of the component	Quantity	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	Division wall for shutter box SKT	1 [pcs.]			
	SKT		SP/230/170	SP/230/210	SP/255/240
	SKT+MKT		SPM/230/170	SPM/230/210	SPM/255/240
	SKT Nova		SPM/W/230/170	SPM/W/230/210	SPM/W/255/240
2.	Entry guide	1 [pair]			
	SKT		SLMI, SLMA		
	SKT+MKT		SLMI/A, SLMA/A		
	SKT Nova				
3.	Double guide channel - division	1 [pcs.]			
	SKT		PPD-P60/12, PPD-P60/17, PPDA-P60/12, PPDA-P60/17		
	SKT+MKT		PPDM-P60/12, PPDM-P60/17		
	SKT Nova		PPDMW-P60/12, PPDMW-P60/17, PPDMW-P60/12, PPMO60/12, PPMO60/17		
4.	Octagonal galvanized steel reel	2 [pcs.]	SW4005, SW4006, SW5006, SW6006, SW6010		
	SW40		OBS40		
	SW50		OBS50		
	SW60		OBS60		
6.	Ball bearing	2 [pcs.]	LO28		
7.	Pin for division wall	2 [pcs.]	TSP		
8.	Galvanized screw 4,2 x 40 mm	1 [pcs.]	WKR/Zn/S/4,2x40		



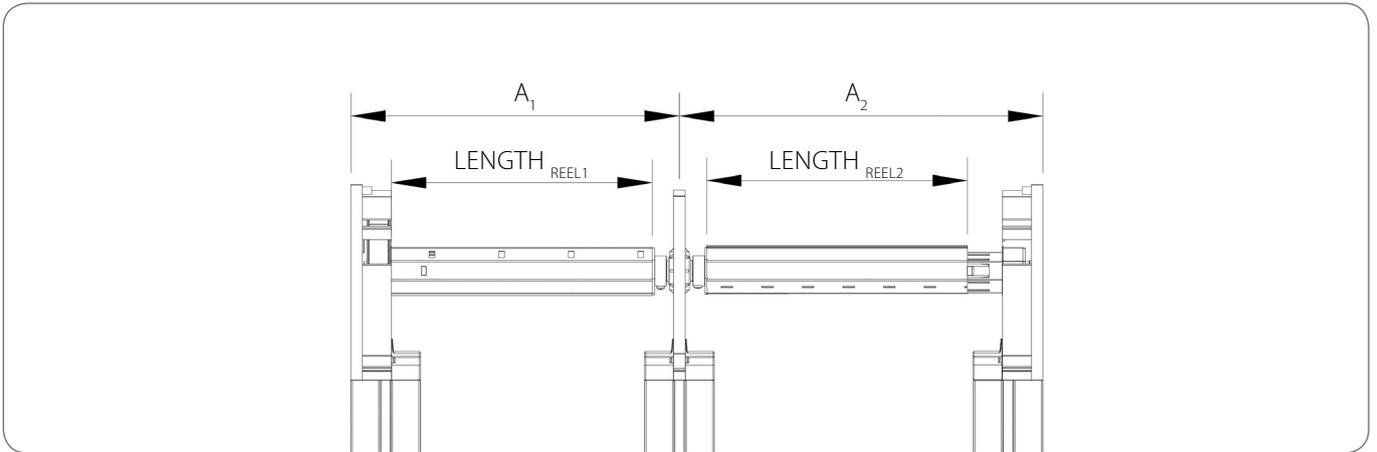
Drive		Steel reel	Steel reel length
1.	KN pulley	SW4005, SW4006	A_1 - 70 [mm] A_2 - 70 [mm]
		SW5006	A_1 - 110 [mm] A_2 - 110 [mm]
		SW6006, SW6010	A_1 - 100 [mm] A_2 - 100 [mm]
2.	Gear mechanism ACEC	SW4005, SW4006	A_1 - 80 [mm] A_2 - 80 [mm]
		SW5006	A_1 - 120 [mm] A_2 - 120 [mm]
		SW6006, SW6010	A_1 - 110 [mm] A_2 - 110 [mm]
3.	Gear mechanism MK	SW4005, SW4006	A_1 - 80 [mm] A_2 - 80 [mm]
		SW5006	A_1 - 120 [mm] A_2 - 120 [mm]
		SW6006, SW6010	A_1 - 110 [mm] A_2 - 110 [mm]
4.	Motor	SW4005, SW4006	A_1 - 70 [mm] A_2 - 70 [mm]
		SW5006	A_1 - 110 [mm] A_2 - 110 [mm]
		SW6006, SW6010	A_1 - 100 [mm] A_2 - 100 [mm]

7.15.3. Roller shutter set of the same height - common drive.

 Number of elements is defined for single division.



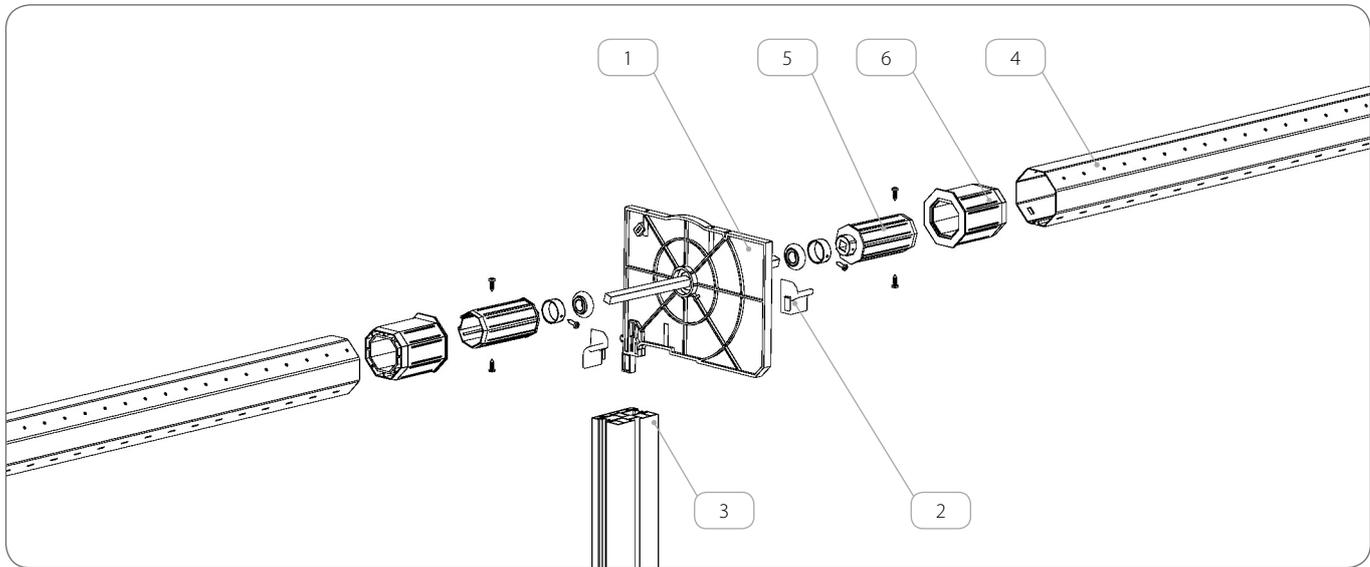
	Name of the component	Quantity	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	Division wall for shutter box SKT	1 [pcs.]			
	SKT		SP/230/170	SP/230/210	SP/255/240
	SKT+MKT		SPM/230/170	SPM/230/210	SPM/255/240
	SKT Nova		SPM/W/230/170	SPM/W/230/210	SPM/W/255/240
2.	Entry guide	1 [pair]			
	SKT		SLMI, SLMA		
	SKT+MKT		SLMI/A, SLMA/A		
	SKT Nova				
3.	Double guide channel - division	1 [pcs.]			
	SKT		PPD-P60/12, PPD-P60/17, PPDA-P60/12, PPDA-P60/17		
	SKT+MKT		PPDM-P60/12, PPDM-P60/17		
	SKT Nova		PPDMW-P60/12, PPDMW-P60/17, PPDAW-P60/12, PPMO60/12, PPMO60/17		
4.	Octagonal galvanized steel reel	2 [pcs.]	SW4005, SW4006, SW5006, SW6006, SW6010		
5.	Cap common drive	1 [pcs.]			
	SW40		OBS40WNSKT		
	SW50		OBS60WNSKT		
	SW60				
6.	Reduction	2 [pcs.]	RED40/50		
	SW50				



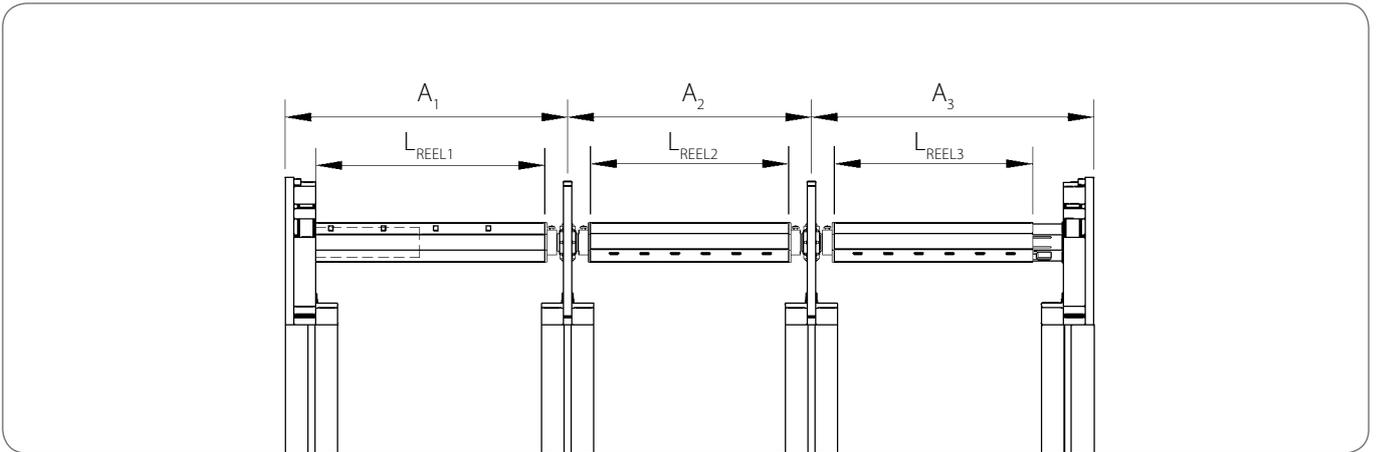
Drive		Steel reel	Steel reel length
1.	KN pulley	SW4005, SW4006, SW5006	A₁ - 60 [mm] A₂ - 90 [mm]
		SW6006, SW6010	A₁ - 90 [mm] A₂ - 90 [mm]
2.	Gear mechanism ACEC	SW4005, SW4006, SW5006	A₁ - 60 [mm] A₂ - 90 [mm]
		SW6006, SW6010	A₁ - 90 [mm] A₂ - 90 [mm]
3.	Gear mechanism MK	SW4005, SW4006, SW5006	A₁ - 60 [mm] A₂ - 90 [mm]
		SW6006, SW6010	A₁ - 90 [mm] A₂ - 90 [mm]
4.	Motor	SW4005, SW4006, SW5006	A₁ - 60 [mm] A₂ - 90 [mm]
		SW6006, SW6010	A₁ - 90 [mm] A₂ - 90 [mm]

7.15.4. Roller shutter set of three the same height - common drive.

 Number of elements is defined for single division.



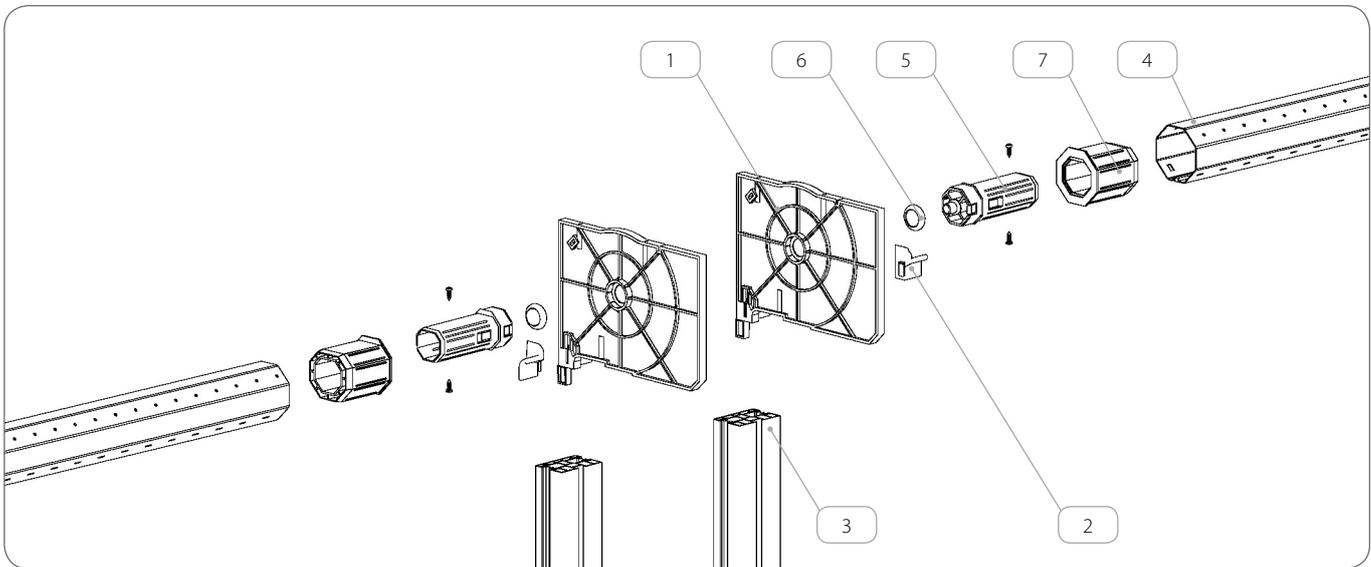
	Name of the component	Quantity	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	Division wall for shutter box SKT	1 [pcs.]			
	SKT		SP/230/170	SP/230/210	SP/255/240
	SKT+MKT		SPM/230/170	SPM/230/210	SPM/255/240
	SKT Nova		SPM/W/230/170	SPM/W/230/210	SPM/W/255/240
2.	Entry guide	1 [pair]			
	SKT		SLMI, SLMA		
	SKT+MKT		SLMI/A, SLMA/A		
	SKT Nova				
3.	Double guide channel - division	1 [pcs.]			
	SKT		PPD-P60/12, PPD-P60/17, PPDA-P60/12, PPDA-P60/17		
	SKT+MKT		PPDM-P60/12, PPDM-P60/17		
	SKT Nova		PPDMW-P60/12, PPDMW-P60/17, PPDMW-P60/12, PPMO60/12, PPMO60/17		
4.	Octagonal galvanized steel reel	2 [pcs.]	SW4005, SW4006, SW5006, SW6006, SW6010		
5.	Cap common drive	1 [pcs.]			
	SW40		OBS40WNSKT		
	SW50		OBS60WNSKT		
	SW60				
6.	Reduction	2 [pcs.]			
	SW50		RED40/50		



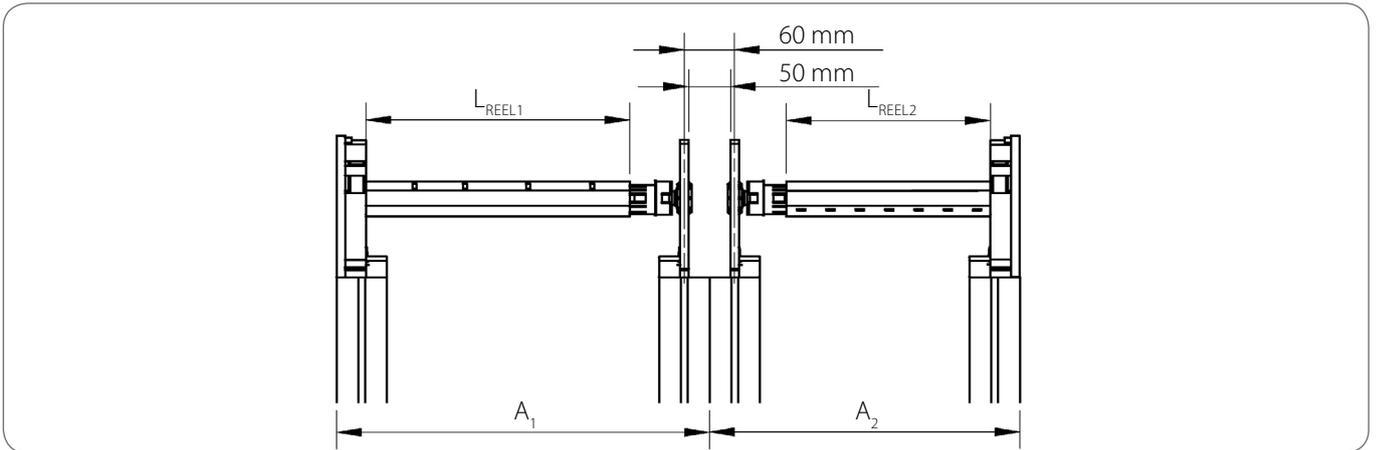
Drive		Steel reel	Steel reel length
1.	KN pulley	SW4005, SW4006, SW5006	A ₁ - 60 [mm] A ₂ - 60 [mm] A ₃ - 90 [mm]
		SW6006, SW6010	A ₁ - 90 [mm] A ₂ - 90 [mm] A ₃ - 90 [mm]
2.	Gear mechanism ACEC	SW4005, SW4006, SW5006	A ₁ - 60 [mm] A ₂ - 60 [mm] A ₃ - 90 [mm]
		SW6006, SW6010	A ₁ - 90 [mm] A ₂ - 90 [mm] A ₃ - 90 [mm]
3.	Gear mechanism MK	SW4005, SW4006, SW5006	A ₁ - 60 [mm] A ₂ - 60 [mm] A ₃ - 90 [mm]
		SW6006, SW6010	A ₁ - 90 [mm] A ₂ - 90 [mm] A ₃ - 90 [mm]
4.	Motor	SW4005, SW4006, SW5006	A ₁ - 60 [mm] A ₂ - 60 [mm] A ₃ - 90 [mm]
		SW6006, SW6010	A ₁ - 90 [mm] A ₂ - 90 [mm] A ₃ - 90 [mm]

7.15.5. Roller shutter set of window-door

 Number of elements is defined for single division.



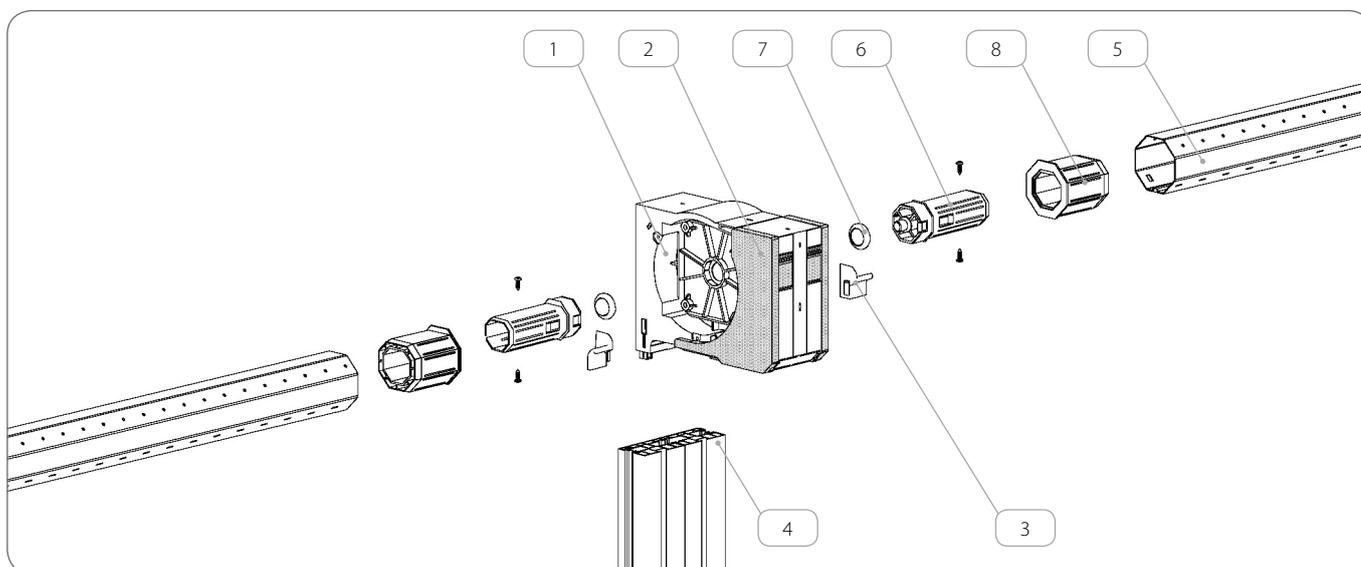
	Name of the component	Quantity	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	Division wall for shutter box SKT	2 [pcs.]			
	SKT		SP/230/170	SP/230/210	SP/255/240
	SKT+MKT		SPM/230/170	SPM/230/210	SPM/255/240
	SKT Nova		SPM/W/230/170	SPM/W/230/210	SPM/W/255/240
2.	Entry guide	1 [pair]			
	SKT		SLMI, SLMA		
	SKT+MKT		SLMI/A, SLMA/A		
	SKT Nova				
3.	Guide channel	2 [pcs.]			
	SKT		PP60/12, PP60/17, PPD60/12, PPD60/17, PPDA60/12, PPDA60/17		
	SKT+MKT		PPDM60/12, PPDM60/17		
	SKT Nova		PPDMW60/12, PPDMW60/17, PPDAMW60/12, PPMO60/12, PPMO60/17		
4.	Octagonal galvanized steel reel	2 [pcs.]	SW4005, SW4006, SW5006, SW6006, SW6010		
5.	Cap	2 [pcs.]			
	SW40		OBSC40KN		
	SW50		OBS50OS		
	SW60		OBSC40KN		
6.	Ball bearing	2 [pcs.]	LO28		
7.	Reduction	2 [pcs.]			
	SW60		RED40/60		



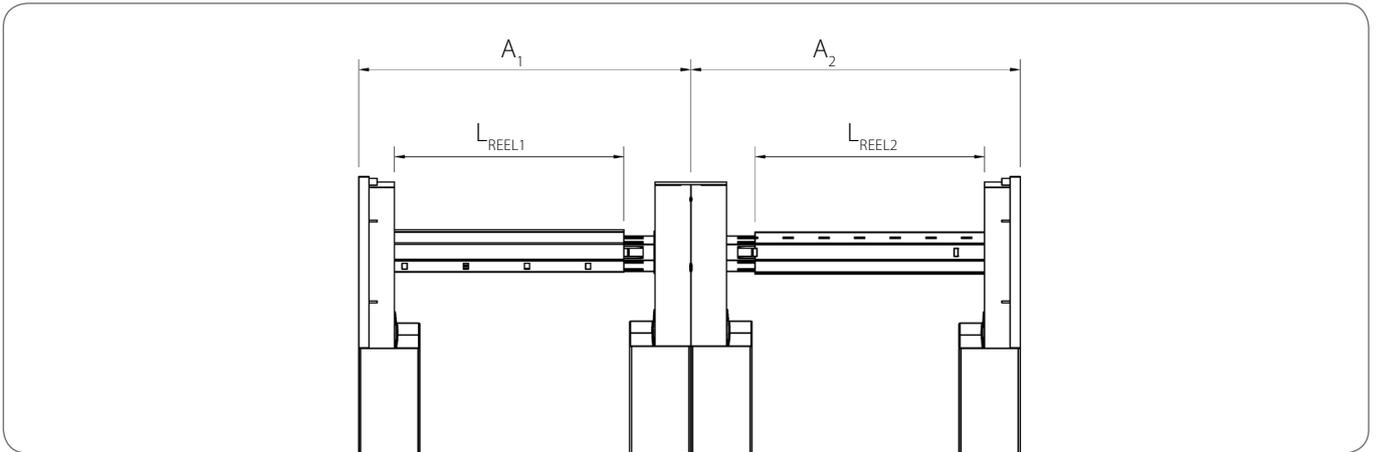
	Drive	Steel reel	Steel reel length
1.	KN pulley	SW4005, SW4006, SW5006, SW6006, SW6010	A_1 - 130 [mm] A_2 - 130 [mm]
2.	Gear mechanism ACEC		A_1 - 135 [mm] A_2 - 135 [mm]
3.	Gear mechanism MK	SW4005, SW4006, SW6006, SW6010	A_1 - 135 [mm] A_2 - 135 [mm]
4.	Motor	SW4005, SW4006, SW5006, SW6006, SW6010	A_1 - 130 [mm] A_2 - 130 [mm]

7.15.6. Roller shutter set of the same height or roller shutter set window - door.

 Number of elements is defined for single division.



	Name of the component	Quantity	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	Compound internal end caps	1 [pcs.]			
	SKT		PBW/230/170	PBW/230/210	PBW/255/240
	SKT+MKT		PBMW/230/170	PBMW/230/210	PBMW/255/240
	SKT Nova		PBMW/W/230/170	PBMW/W/230/210	PBMW/W/255/240
2.	Thermal insulation for end cap	1 [pair]	OCPB/S/230/170	OCPB/S/230/210	OCPB/S/255/240
			OCPB/N/230/170	OCPB/N/230/210	OCPB/N/255/240
3.	Entry guide	1 [pair]			
	SKT		SLMI, SLMA		
	SKT+MKT		SLMI/A, SLMA/A		
	SKT Nova				
4.	Guide channel	2 [pcs.]			
	SKT		PP60/12, PP60/17, PPD60/12, PPD60/17, PPDA60/12, PPDA60/17		
	SKT+MKT		PPDM60/12, PPDM60/17		
	SKT Nova		PPDMW60/12, PPDMW60/17, PPDAMW60/12, PPMO60/12, PPMO60/17		
5.	Octagonal galvanized steel reel	2 [pcs.]	SW4005, SW4006, SW5006, SW6006, SW6010		
6.	Cap	2 [pcs.]			
	SW40		OBSC40KN		
	SW50		OBS50OS		
	SW60		OBSC40KN		
7.	Ball bearing	2 [pcs.]	LO28		
8.	Reduction	2 [pcs.]			
	SW60		RED40/60		

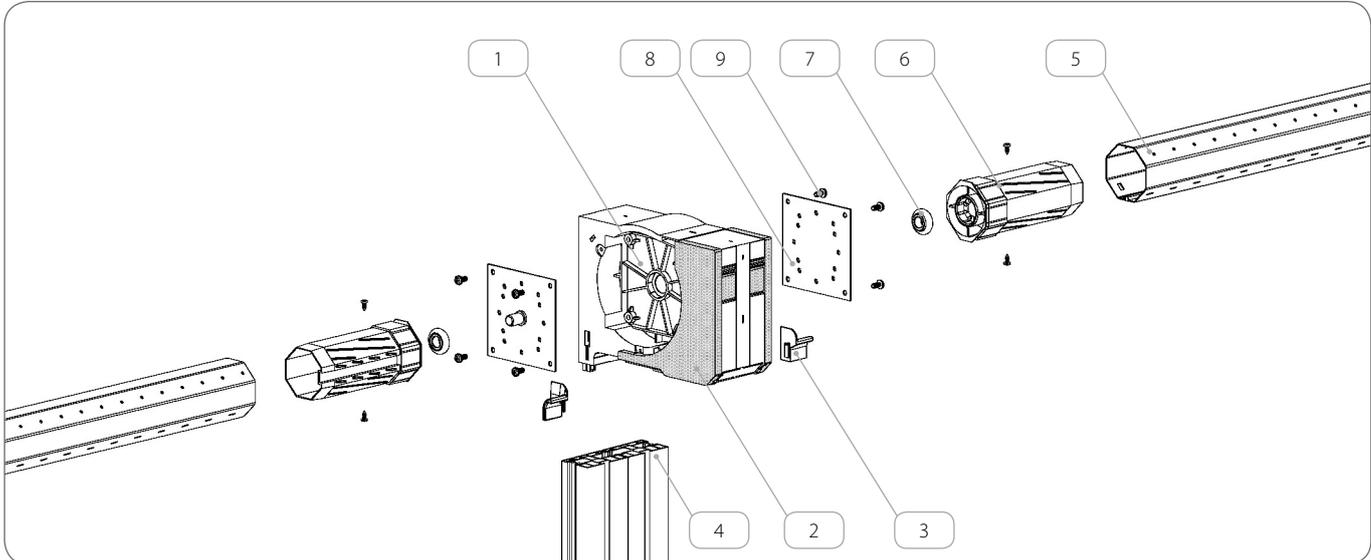


	Drive	Steel reel	Steel reel length
1.	KN pulley	SW4005, SW4006, SW5006, SW6006, SW6010	A_1 - 100 [mm] A_2 - 100 [mm]
2.	Gear mechanism ACEC	SW4005, SW4006, SW5006, SW6006, SW6010	A_1 - 110 [mm] A_2 - 110 [mm]
3.	Gear mechanism MK	SW4005, SW4006, SW6006, SW6010	A_1 - 110 [mm] A_2 - 110 [mm]
4.	Motor: YYGL35S	SW4005, SW4006	A_1 - 100 [mm] A_2 - 100 [mm]
5.	Motor: YYGL45S	SW5006, SW6006, SW6010	A_1 - 100 [mm] A_2 - 100 [mm]
6.	Motor: YYGL45M	SW5006, SW6006, SW6010	A_1 - 100 [mm] A_2 - 100 [mm]
7.	Motor: DM35S, DM35EV/Y, DM35R, DM35BD, DM35SD	SW4005, SW4006	A_1 - 96 [mm] A_2 - 96 [mm]
8.	Motor: DM45S, DM45EV/Y, DM45R, DM45BD, DM45SD	SW5006, SW6006, SW6010	A_1 - 97 [mm] A_2 - 97 [mm]
9.	Motor: DM45M, DM45RM	SW5006, SW6006, SW6010	A_1 - 110 [mm] A_2 - 110 [mm]
10.	Motor: NL_40_LS_40, NL_40_ALTUS_40_RTS, OXIMO_40_WireFree_RTS	SW4005, SW4006	A_1 - 100 [mm] A_2 - 100 [mm]
11.	Motor: OXIMO_M50_S_AUTO_RTS, OXIMO_M50_WT, OXIMO_M50_RTS, ILMO_M50_S_WT, ILMO_M50_WT, OXIMO_M50_S_AUTO_io, OXIMO_M50_io	SW6006, SW6010	A_1 - 100 [mm] A_2 - 100 [mm]
12.	Motor: RDO_M50_CSI	SW6006, SW6010	A_1 - 100 [mm] A_2 - 100 [mm]
13.	Motor: T3.5, T3.5_Hz.02	SW4005, SW4006	A_1 - 101 [mm] A_2 - 101 [mm]
14.	Motor: T5, T5_JOB, T5_Ehz, T5_AUTO, T5_AUTO_Short_Hz, T5_AUTO_Short	SW6006, SW6010	A_1 - 99 [mm] A_2 - 9 [mm]
15.	Motor: DMI5, DMI5_HZ	SW6006, SW6010	A_1 - 104 [mm] A_2 - 104 [mm]

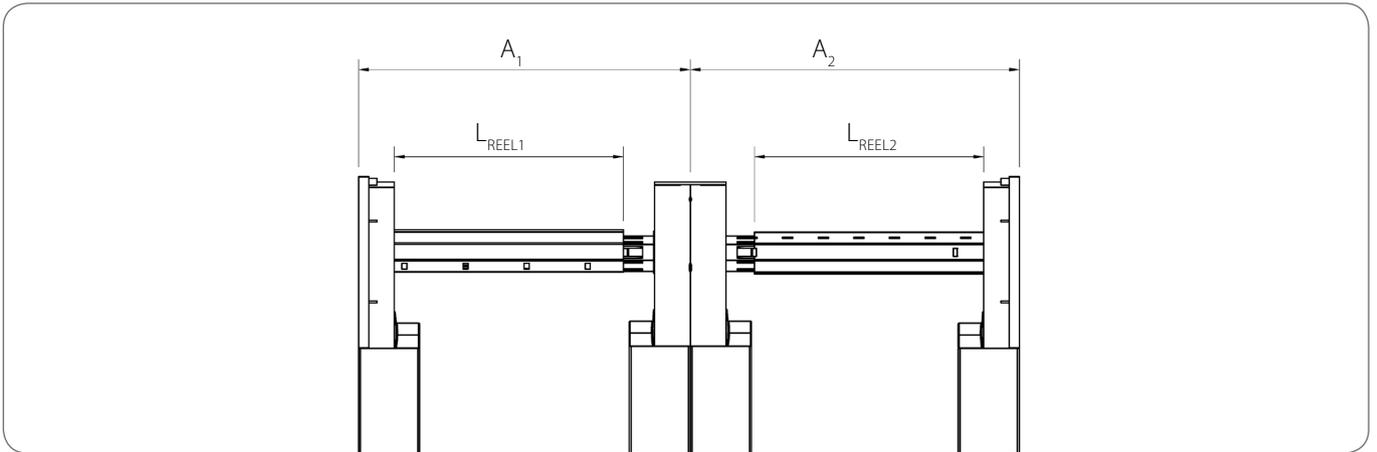
7.15.7. Roller shutter set of the same height or roller shutter set window - door with PAC plate.

⚠ Applies to SKT Opoterm system without insect screen.

⚠ Number of elements is defined for single division.



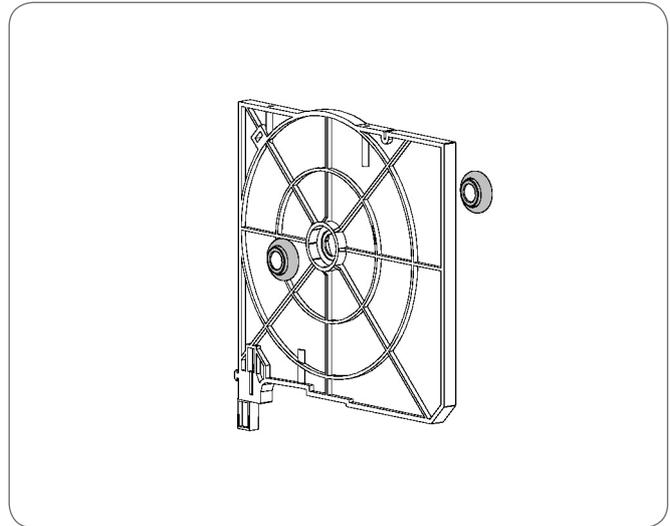
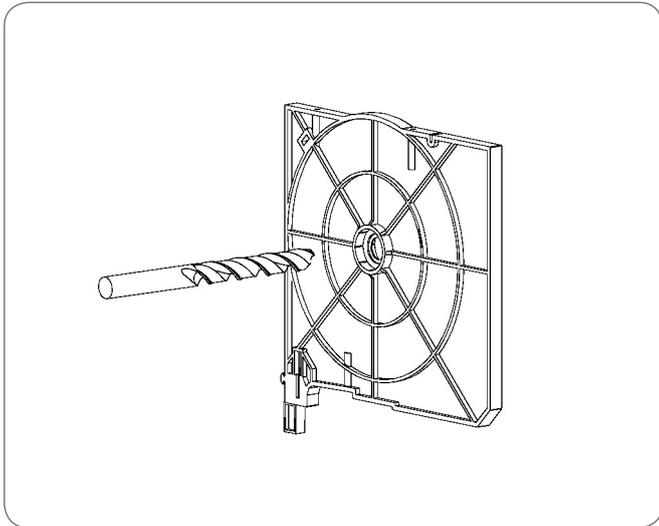
	Name of the component	Quantity	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	Compound internal end caps	1 [pcs.]	PBW/230/170	PBW/230/210	PBW/255/240
2.	Thermal insulation for end cap	1 [pair]	OCPB/S/230/170 OCPB/N/230/170	OCPB/S/230/210 OCPB/N/230/210	OCPB/S/255/240 OCPB/N/255/240
3.	Entry guide	1 [pair]	SLMI, SLMA		
4.	Guide channel	2 [pcs.]	PP60/12, PP60/17, PPD60/12, PPD60/17, PPDA60/12, PPDA60/17		
5.	Octagonal galvanized steel reel	2 [pcs.]	SW6006, SW6010		
6.	Cap	2 [pcs.]	OBS60		
7.	Ball bearing	2 [pcs.]	LO28		
8.	Plate for gear mechanism ACEC	2 [pcs.]	PAC		
9.	Fasteners M x 10 mm	8 [pcs.]	ELZM5		



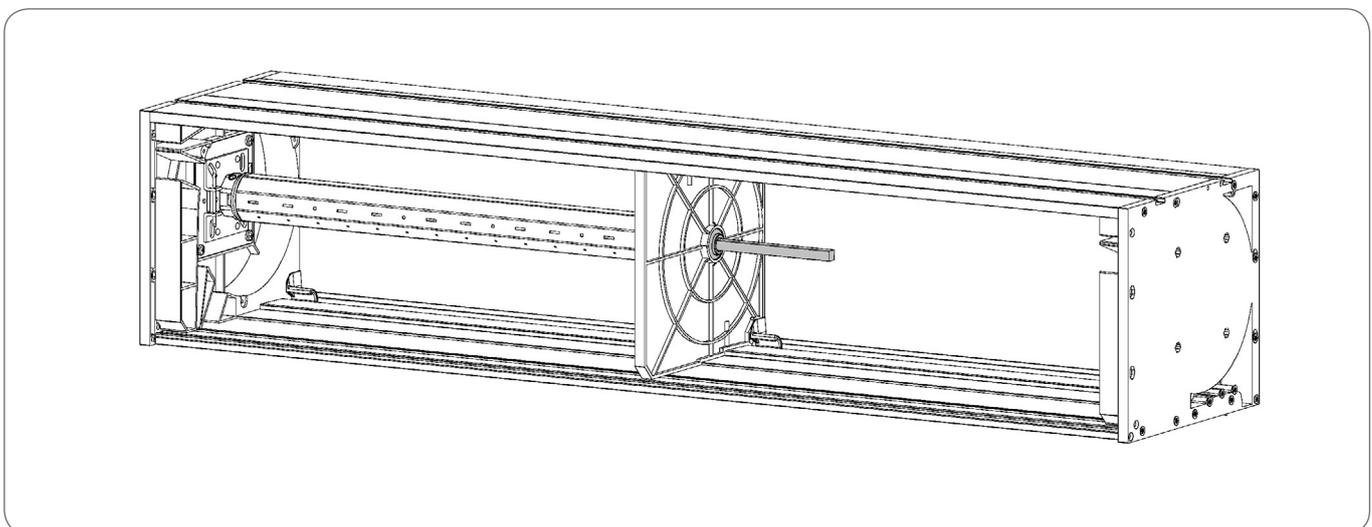
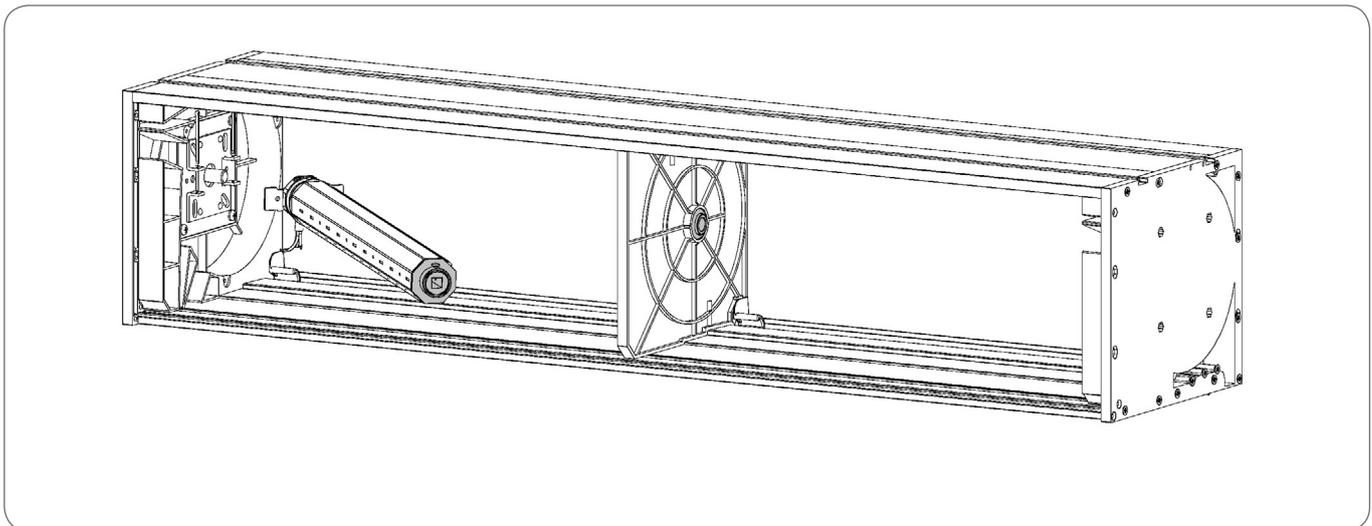
	Drive	Steel reel	Steel reel length
1.	KN pulley	SW6006, SW6010	A_1 - 105 [mm] A_2 - 105 [mm]
2.	Gear mechanism ACEC		A_1 - 110 [mm] A_2 - 110 [mm]
3.	Gear mechanism MK		A_1 - 110 [mm] A_2 - 110 [mm]
4.	Motor: YYGL45S		A_1 - 100 [mm] A_2 - 100 [mm]
5.	Motor: YYGL45M		A_1 - 110 [mm] A_2 - 110 [mm]
6.	Motor: DM45S, DM45EV/Y, DM45R, DM45BD, DM45SD		A_1 - 100 [mm] A_2 - 100 [mm]
7.	Motor: DM45M, DM45RM		A_1 - 107 [mm] A_2 - 107 [mm]
8.	Motor: OXIMO_M50_S_AUTO_RTS, OXIMO_M50_WT, OXIMO_M50_RTS, ILMO_M50_S_WT, ILMO_M50_WT, OXIMO_M50_S_AUTO_io, OXIMO_M50_io		A_1 - 105 [mm] A_2 - 105 [mm]
9.	Motor RDO_M50_CSI		A_1 - 110 [mm] A_2 - 110 [mm]
10.	Motor: T5, T5_JOB, T5_Ehz, T5_AUTO, T5_AUTO_Short_Hz, T5_AUTO_Short		A_1 - 100 [mm] A_2 - 100 [mm]
11.	Motor: DMI5, DMI5_HZ		A_1 - 110 [mm] A_2 - 110 [mm]

7.16. common drive installation

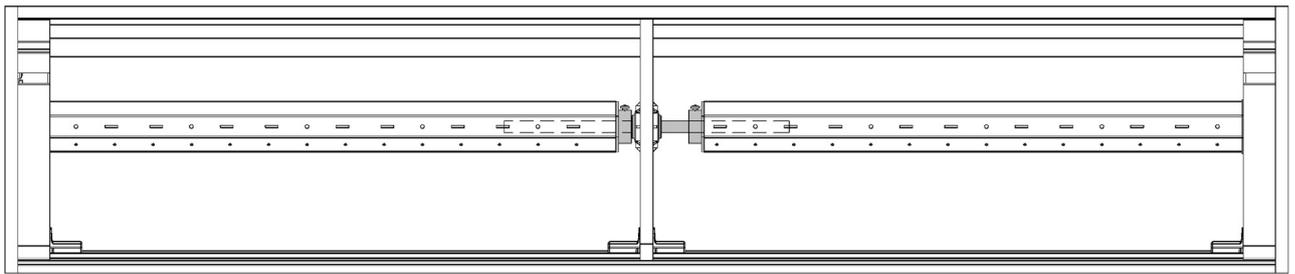
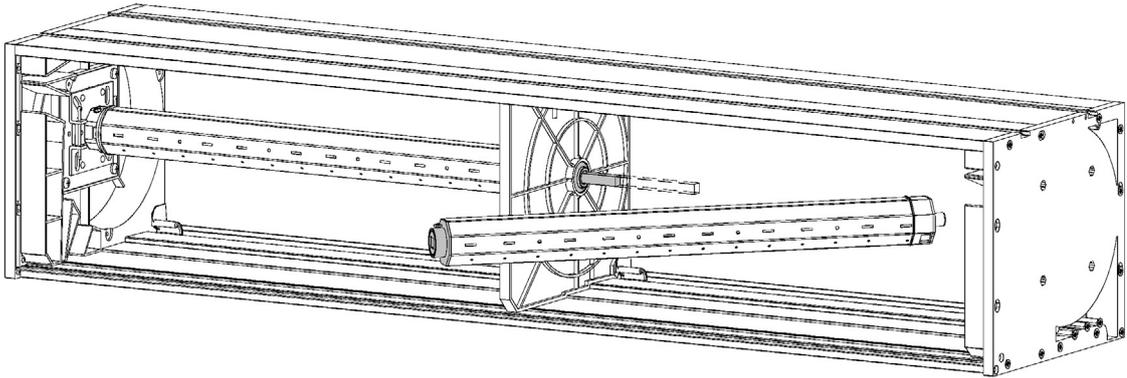
In division wall make $\varnothing 10$ mm hole. Then seat the bearings on both sides of the division wall.



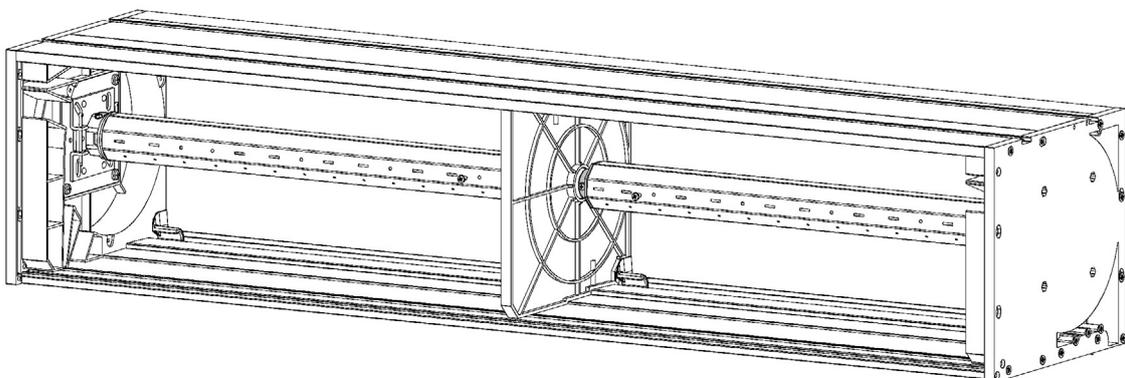
Install the reel with drive and the first cap of the common drive. Through an opening in the division wall enter the pin.



Insert the pin so that approx. 30 mm. of it will sticking out. Then insert the second reel, together with the caps.



Make sure that pin is symmetrical on both sides. Extend side cap. Then tighten both clamps of the caps from the common drive. Secure caps from slipping into the reel by two not tapered headed screws on opposite sides.



7.17. Guide channels
7.17.1. Cutting specification and list of components
SKT
Single roller shutter

	Name of the component	Length	Quantity	Catalogue code
1.	Guide channel	Z [mm]	2 [pcs.]	PPA35/12, PPA35/17, PPDA60/12, PPDA60/17, PP60/12, PP60/17, PPD60/12, PPD60/17, PPMO60/12, PPMO60/17
2.	Guide channel side lock		2 [pcs.]	
	PP60/12, PP60/17, PPD60/12, PPD60/17, PPDA60/12, PPDA60/17			ZPPD
	PPA35/12, PPA35/17			ZPPA
3.	Galvanized screws		$\lceil \frac{[(L_{\text{GUIDE CHANNEL}} - 100)/250] + 1}{\geq 4} \rceil \times \text{QUANTITY}_{\text{GUIDE CHANNEL}}$ [pcs.]	WKR/Zn/RD-2/4x13
4.	Galvanized screw 4,2 x 16 mm			WKR/Zn/S/4,2x16
	ZPPA		2 [pcs.]	
	ZPPD		4 [pcs.]	

roller shutter with division

	Name of the component	Length	Quantity	Catalogue code
1.	Guide channel	Z [mm]	2 [pcs.]	PPA35/12, PPA35/17, PPDA60/12, PPDA60/17, PP60/12, PP60/17, PPD60/12, PPD60/17, PPMO60/12, PPMO60/17
2.	Guide channel	Z [mm]	2 x QUANTITY _{PBW} [pcs.]	PPDA60/12, PPDA60/17, PP60/12, PP60/17, PPD60/12, PPD60/17, PPMO60/12, PPMO60/17
	With the use of PBW			
3.	Guide channel	Z [mm]	QUANTITY _{SP} [pcs.]	PPDA-P60/12, PPDA-P60/17, PPD-P60/12, PPD-P60/17, PPMO60/12, PPMO60/17
	With the use of SP			
4.	Guide channel side lock		QUANTITY _{GUIDE CHANNEL} [pcs.]	
	PP60/12, PP60/17, PPD60/12, PPD60/17, PPD-P60/12, PPD-P60/17, PPDA60/12, PPDA60/17, PPDA-P60/12, PPDA-P60/17			ZPPD
	PPA35/12, PPA35/17			ZPPA
5.	Galvanized screws		$\lceil \frac{[(L_{\text{GUIDE CHANNEL}} - 100)/250] + 1}{\geq 4} \rceil \times \text{QUANTITY}_{\text{GUIDE CHANNEL}}$ [pcs.]	WKR/Zn/RD-2/4x13
6.	Galvanized screw 4,2 x 16 mm			WKR/Zn/S/4,2x16
	ZPPA		QUANTITY _{GUIDE CHANNEL} [pcs.]	
	ZPPD		2 x QUANTITY _{GUIDE CHANNEL} [pcs.]	

SKT + MKT

Single roller shutter

	Name of the component	Length	Quantity	Catalogue code
1.	Guide channel	Z [mm]	2 [pcs.]	PPAM35/12, PPAM35/17, PPM60/12, PPM60/17, PPDM60/12, PPDM60/17,
2.	Guide channel side lock		2 [pcs.]	ZPPDM
	PPM60/12, PPM60/17, PPDM60/12, PPDM60/17			ZPPAM
	PPAM35/12, PPAM35/17			
3.	Galvanized screws		$\lceil \frac{[(L_{\text{GUIDE CHANNEL}} - 100) / 250] + 1}{\geq 4} \rceil \times \text{QUANTITY}_{\text{GUIDE CHANNEL}}$ [pcs.]	WKR/Zn/RD-2/4x13
4.	Galvanized screw 4,2 x 16 mm			WKR/Zn/S/4,2x16
	ZPPAM		2 [pcs.]	
	ZPPDM		4 [pcs.]	

Roller shutter with division

	Name of the component	Length	Quantity	Catalogue code
1.	Guide channel	Z [mm]	2 [pcs.]	PPM60/12, PPM60/17, PPDM60/12, PPDM60/17
2.	Guide channel with the use of PBMW	Z [mm]	2 x QUANTITY _{PBMW} [pcs.]	PPM60/12, PPM60/17, PPDM60/12, PPDM60/17
3.	Guide channel with the use of SPM	Z [mm]	QUANTITY _{SPM} [pcs.]	PPDM-P60/12, PPDM-P60/17
4.	Guide channel side lock		QUANTITY _{GUIDE CHANNEL} [pcs.]	ZPPDM
5.	Galvanized screws		$\lceil \frac{[(L_{\text{GUIDE CHANNEL}} - 100) / 250] + 1}{\geq 4} \rceil \times \text{QUANTITY}_{\text{GUIDE CHANNEL}}$ [pcs.]	WKR/Zn/RD-2/4x13
6.	Galvanized screw 4,2 x 16 mm		2 x QUANTITY _{GUIDE CHANNEL} [pcs.]	WKR/Zn/S/4,2x16

SKT Nova

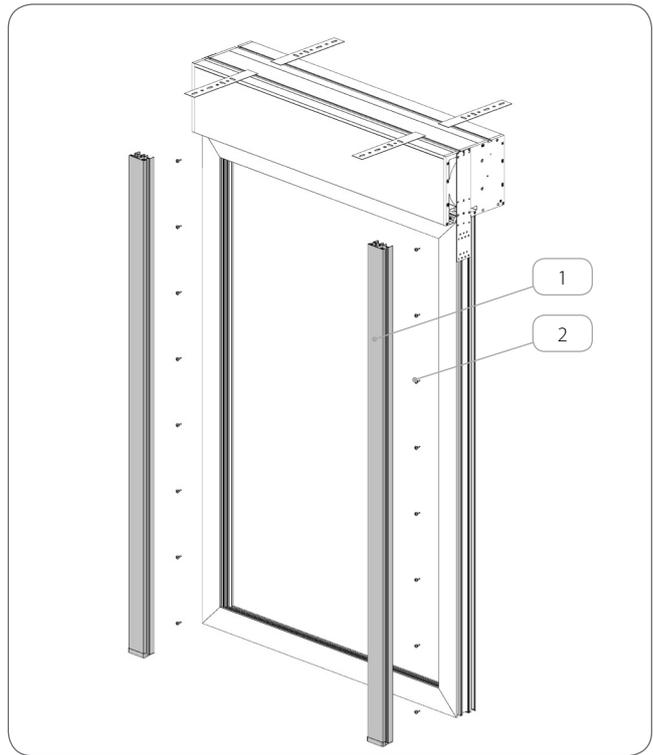
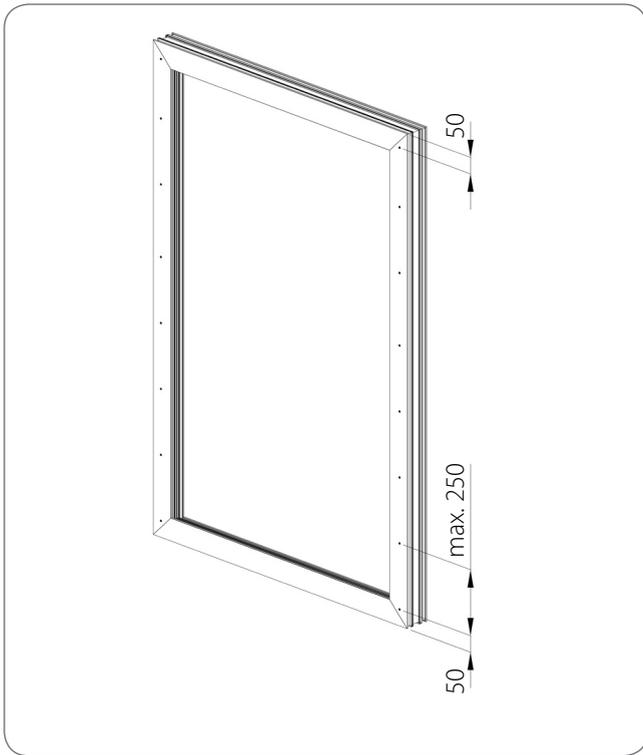
Single roller shutter

	Name of the component	Length	Quantity	Catalogue code
1.	Guide channel	Z [mm]	2 [pcs.]	PPDMW60/12, PPDMW60/17, PPDAMW60/12, PPMO60/12, PPMO60/17
2.	Guide channel side lock		2 [pcs.]	ZPPDMW
3.	Galvanized screws		$\lceil \frac{[(L_{\text{GUIDE CHANNEL}} - 100) / 250] + 1}{\geq 4} \rceil \times \text{QUANTITY}_{\text{GUIDE CHANNEL}}$ [pcs.]	WKR/Zn/RD-2/4x13
4.	Galvanized screw 4,2 x 16 mm		4 [pcs.]	WKR/Zn/S/4,2x16

roller shutter with division

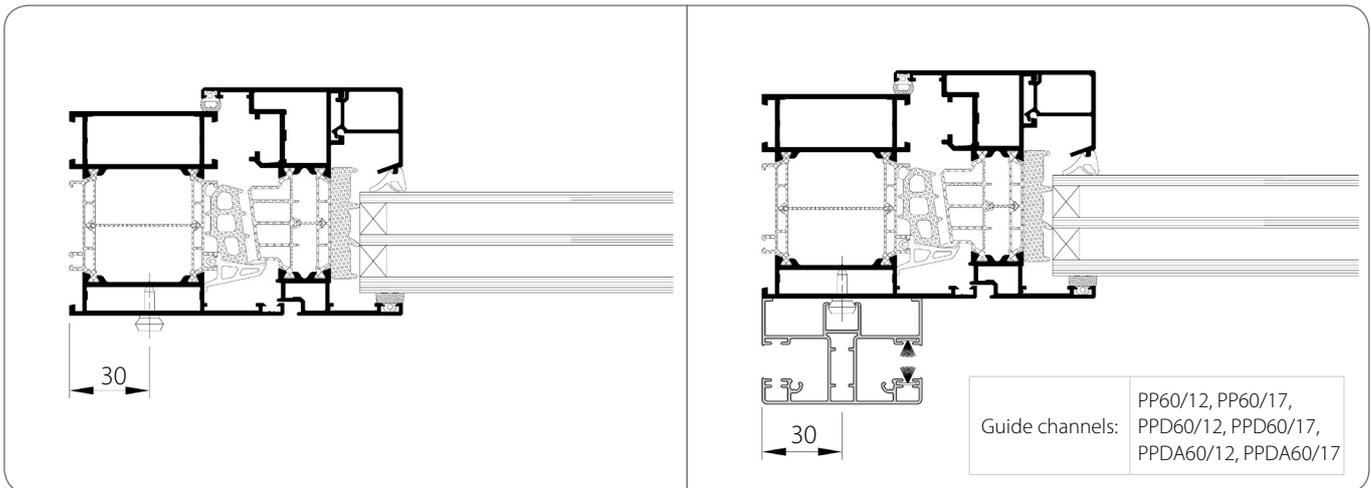
	Name of the component	Length	Quantity	Catalogue code
1.	Guide channel	Z [mm]	2 [pcs.]	PPDMW60/12, PPDMW60/17, PPDAMW60/12, PPMO60/12, PPMO60/17
2.	Guide channel with the use of PBMW/W	Z [mm]	2 x QUANTITY _{PBMW/W} [pcs.]	PPDMW60/12, PPDMW60/17, PPDAMW60/12, PPMO60/12, PPMO60/17
3.	Guide channel with the use of SPM/W	Z [mm]	QUANTITY _{SPM/W} [pcs.]	PPDMW-P60/12, PPDMW-P60/17, PPDAMW-P60/12, PPMO60/12, PPMO60/17
4.	Guide channel side lock		QUANTITY _{GUIDE CHANNEL} [pcs.]	ZPPDMW
5.	Galvanized screws		$\lceil \frac{[(L_{\text{GUIDE CHANNEL}} - 100) / 250] + 1}{\geq 4} \rceil \times \text{QUANTITY}_{\text{GUIDE CHANNEL}}$ [pcs.]	WKR/Zn/RD-2/4x13
6.	Galvanized screw 4,2 x 16 mm		2 x QUANTITY _{GUIDE CHANNEL} [pcs.]	WKR/Zn/S/4,2x16

7.17.2. Arrangement of holes for screwing guide channels to window frame

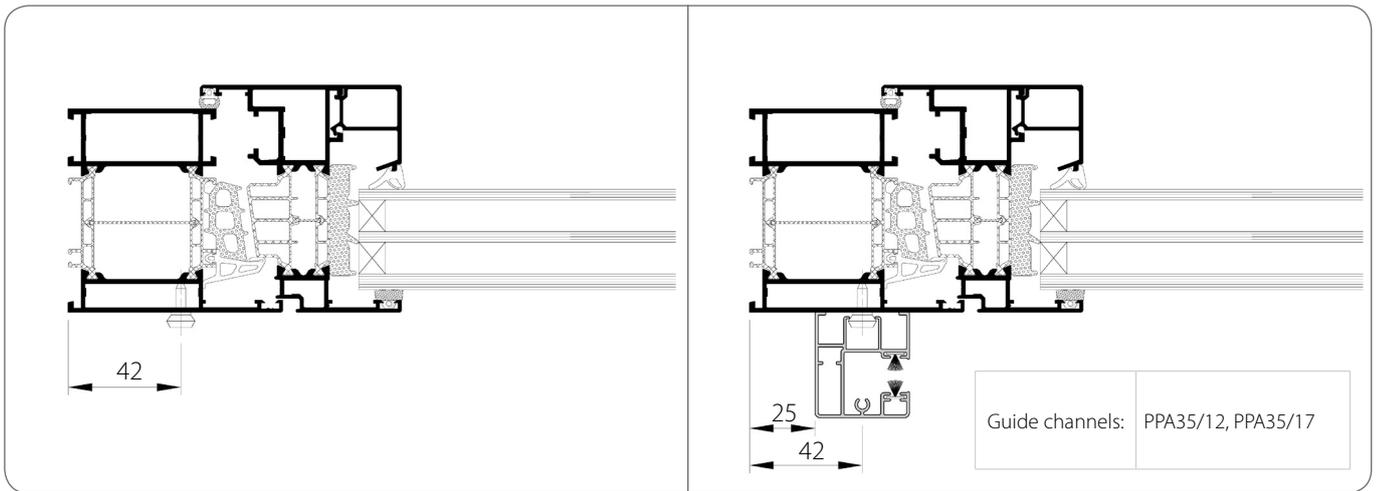


	Name of the component	Catalogue code
1.	Guide channel	
2.	Galvanized screws	WKR/Zn/RD-2/4x13

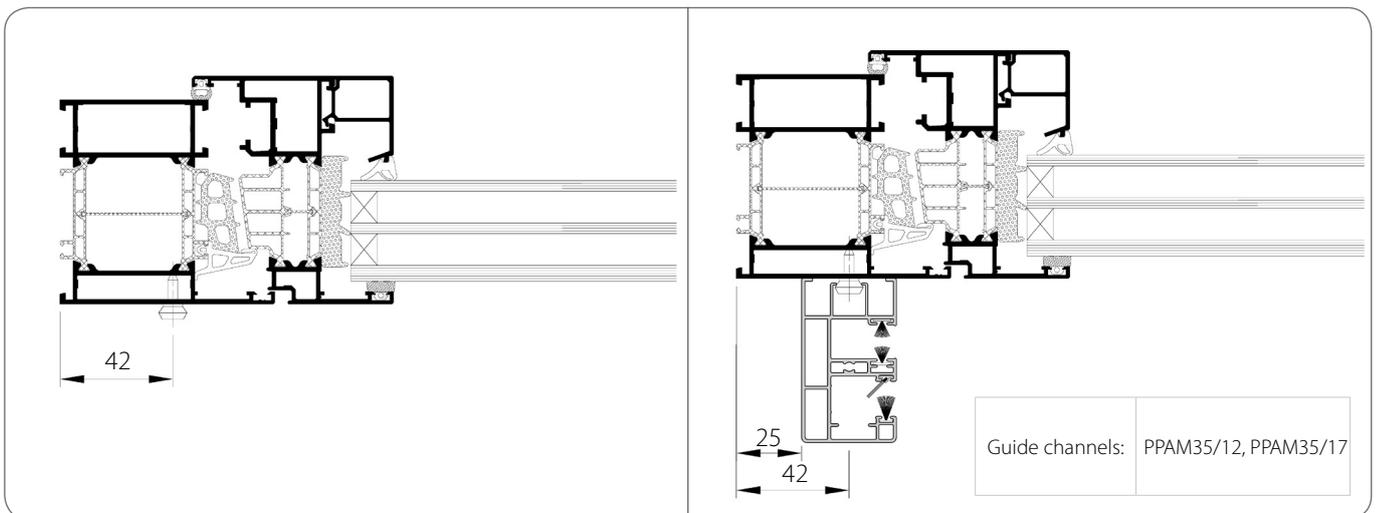
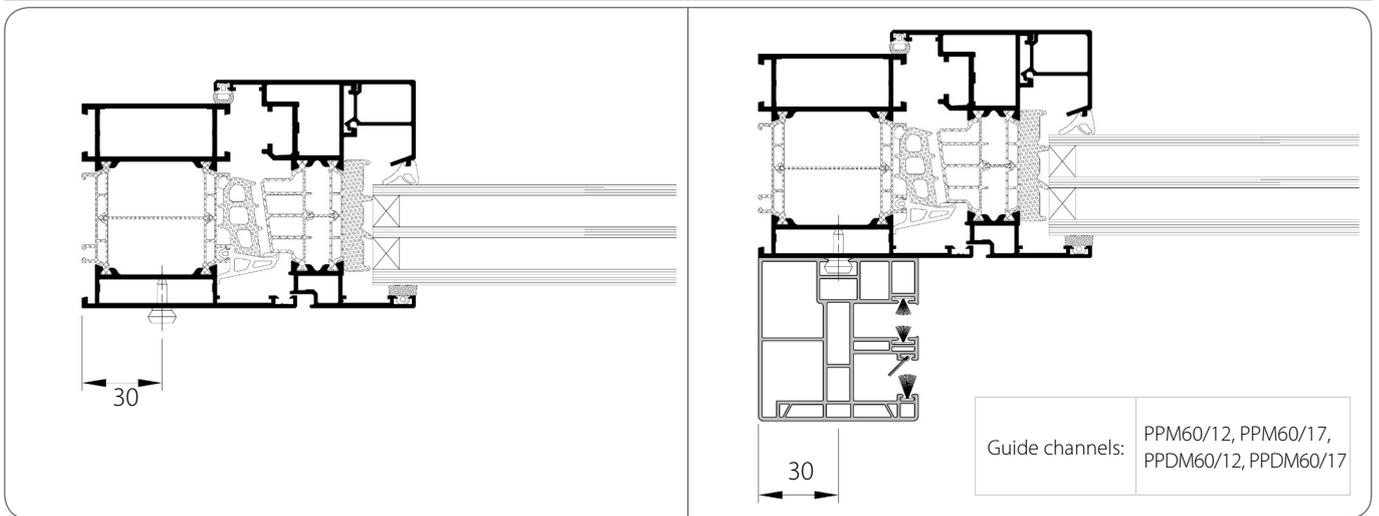
SKT



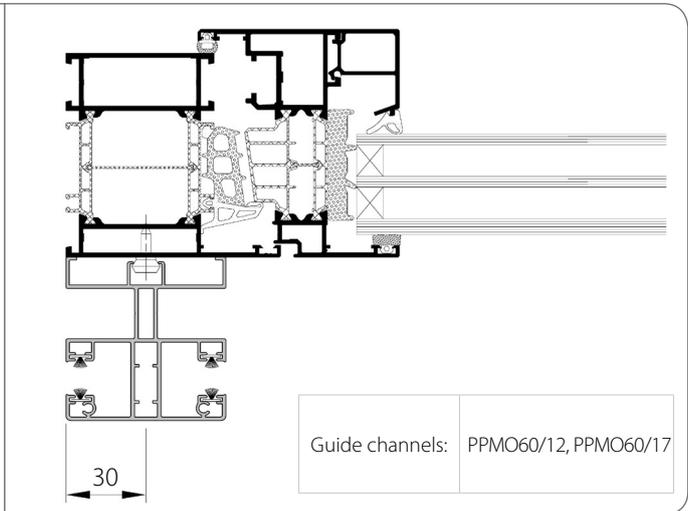
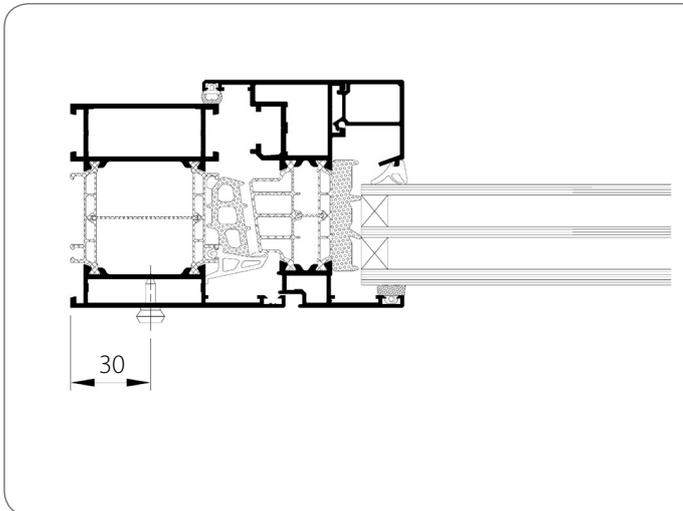
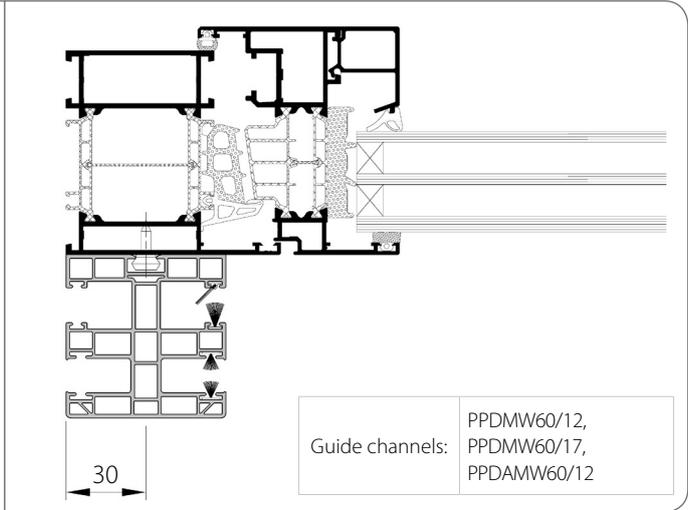
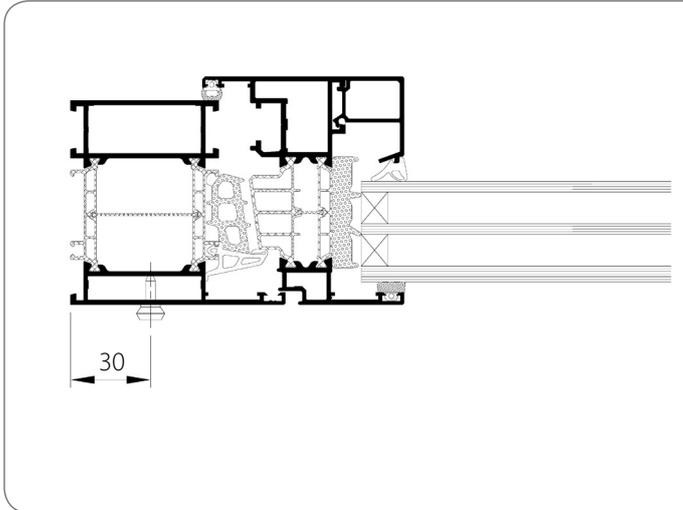
	Name of the component	Catalogue code
1.	Guide channel	
2.	Galvanized screws	WKR/Zn/RD-2/4x13



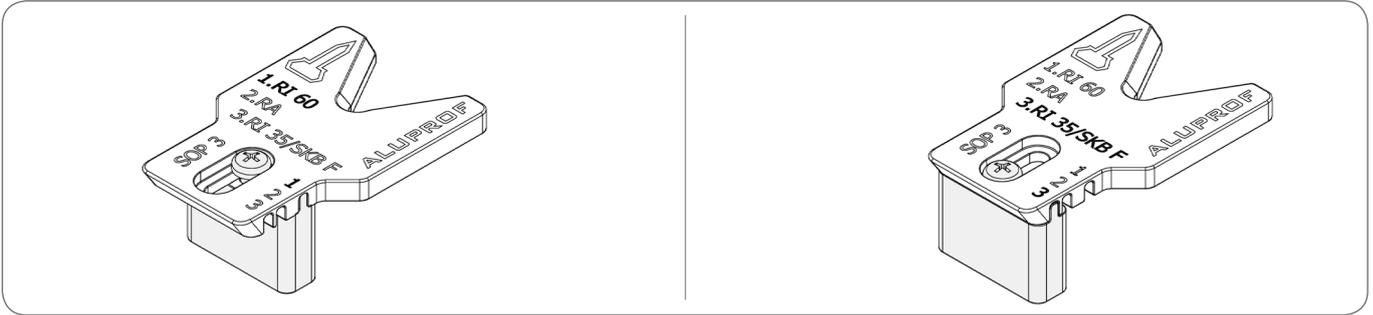
SKT + MKT



SKT Nova

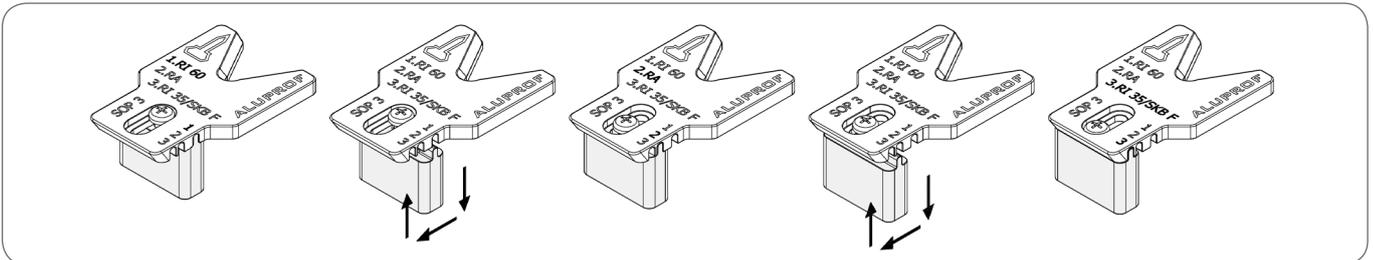


 SOP3 template can be used for the guide channels holes marking.

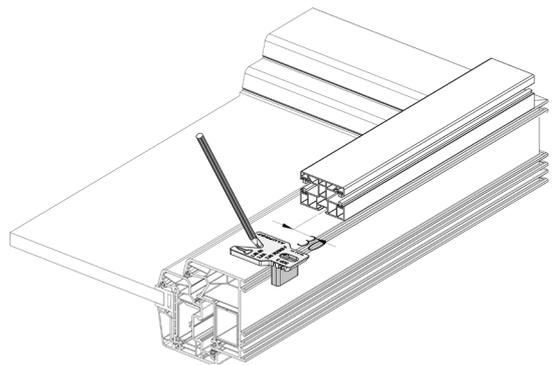
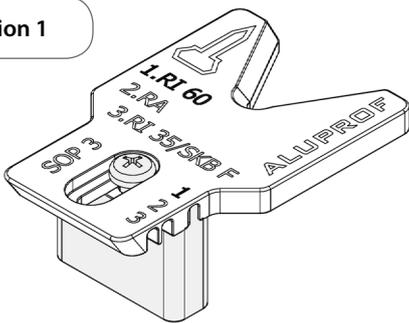


Allocation of guide channels	
Position 1 RI 60	Position 3 RI 35/SKB F
PP 60/12, PP 60/17 PPM 60/12, PPM 60/17 PPD 60/12, PPD 60/17 PPD-P 60/12, PPD-P 60/17 PPDA 60/12, PPDA 60/17 PPDA-P 60/12, PPDA-P 60/17 PPDM 60/12, PPDM 60/17 PPDM-P 60/12, PPDM-P 60/17 PPDMMW 60/12, PPDMMW 60/17 PPDMMW 60/12 PPDMMW-P 60/12, PPDMMW-P 60/17	PPA 35/12, PPA 35/17 PPAM 35/12, PPAM 35/17

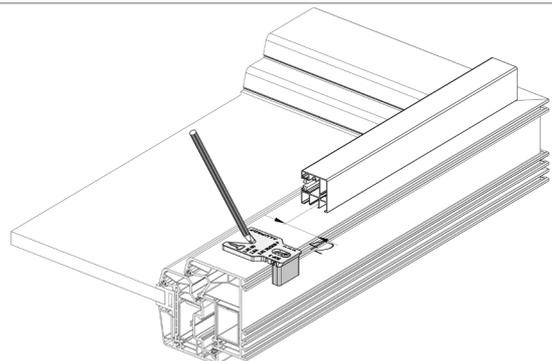
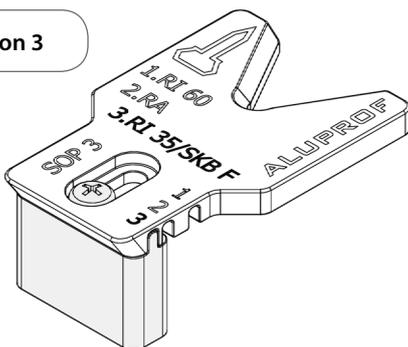
How to use



Position 1



Position 3



7.18. Roller shutter curtain

 If the curtain is made of perforated profiles, it is recommended that the first 6 profiles at the top of the curtain should be non-perforated.

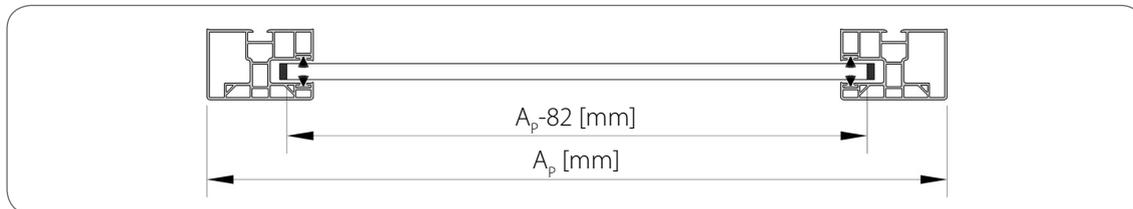
7.18.1. Curtain for single roller shutter

7.18.1.1. Profile PT37

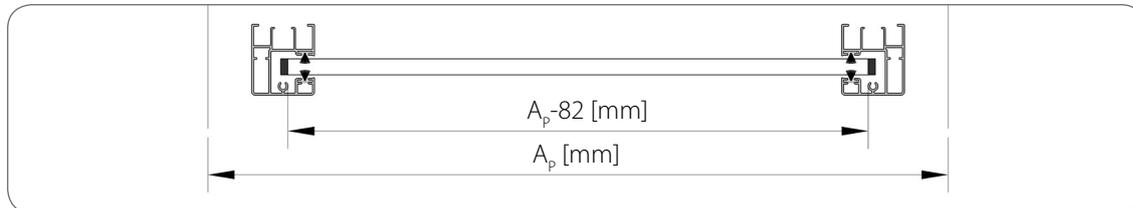
a) Cutting specification

	Name of the component	Length	Quantity	Catalogue code
1.	PVC roller shutter profile	$A_p - 82$ [mm]	$\lceil (B - H_{\text{ENDSLAT}} - 0,5 H_{\text{BOX}}) / 37 \rceil$ [pcs.]	PT37
2.	Endslat with rubber seal	L_{PT37} [mm]	1 [pcs.]	LDG40, LDG, LDG-E

SKT	PP60/12, PPD60/12, PPDA60/12
SKT + MKT	PPM60/12, PPDM60/12
SKT NOVA	PPDMW60/12, PPDAMW60/12, PPMO60/12



SKT	PPA35/12
SKT + MKT	PPAM35/12



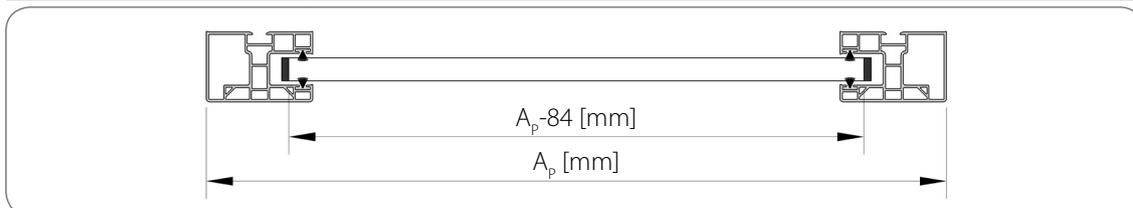
b) Other components

	Name of the component	Length	Quantity	Catalogue code		
				SKT230/170	SKT230/210	SKT255/240
1.	Endslat load	$L_{\text{ENDSLAT}} - 72$ [mm]				
	LDG40			D/LD/16		
	LDG, LDG-E			D/LD/25		
 Endslat ballast is necessary for roller shutters with a width of $A \leq 1000$ mm.						
2.	Cap		QUANTITY_{PT37} [pcs.] - rounded up to even numbers	APT37		
3.	Mini entry guide		1 [pair]			
	PB, PBM			SLMI		
	PBM/W, ASSKT (with insect screen)			SLMI/A		
	ASSKT (without insect screen)			SLMI, SLMI/A		
4.	Steel retainer spring		$\lceil [(A - 1082) / 500] + 2 \rceil \geq 2$ [pcs.]	WM/130, WMA/130, WS/130	WM/170, WMA/170, WS/170	
 Part number 5 should be used for manual drive or actuators with automatic limit switch setting function.						
5.	Conical stopper		2 [set]	BF/18, BF/30		

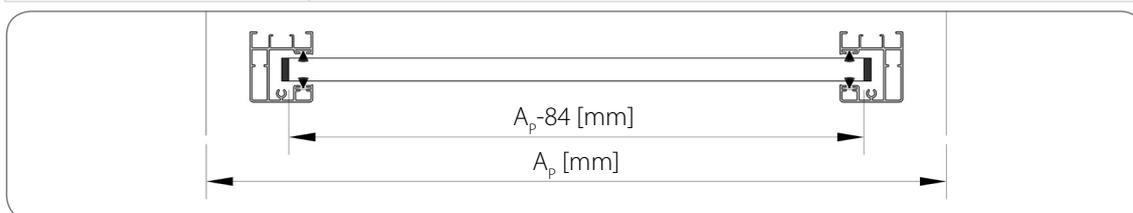
7.18.1.2. Profile PT52
a) Cutting specification

	Name of the component	Length	Quantity	Catalogue code
1.	PVC roller shutter profile	$A_p - 84$ [mm]	$\lceil (B - H_{\text{ENDSLAT}} - 0,5 H_{\text{BOX}}) / 52 \rceil$ [pcs.]	PT52
2.	Endslat with rubber seal	L_{PT52} [mm]	1 [pcs.]	LDG52, LDG52/OPT

SKT	PP60/17, PPD60/17, PPDA60/17
SKT + MKT	PPM60/17, PPDM60/17
SKT NOVA	PPDMW60/17, PPMO60/17



SKT	PPA35/17
SKT + MKT	PPAM35/17

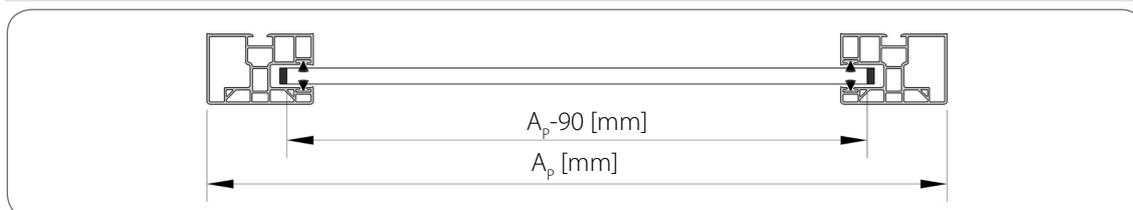

b) Other components

	Name of the component	Quantity	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	Cap	QUANTITY_{PT52} [pcs.] - rounded up to even numbers	APT52		
2.	Maxi entry guide	1 [pair]	SLMA		
	PB, PBM		SLMA/A		
	PBM/W, ASSKT (with insect screen)		SLMA, SLMA/A		
	ASSKT (without insect screen)				
3.	Steel retainer spring	$\lceil [(A - 1084) / 500] + 2 \rceil \geq 2$ [pcs.]	WMA/130, WMS/130	WMA/170, WMS/170	
⚠ Part number 4 should be used for manual drive or actuators with automatic limit switch setting function.					
4.	Conical stopper	2 [set]	BF/18, BF/30		

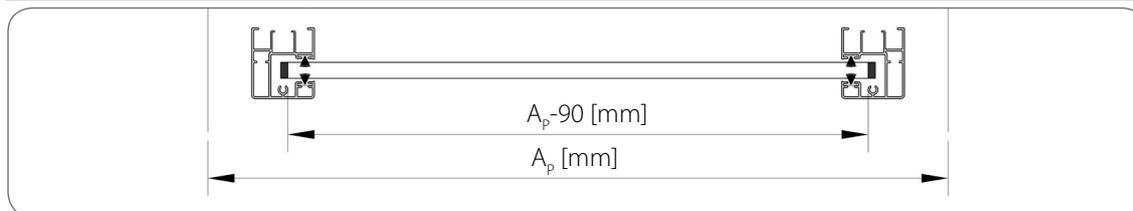
7.18.1.3. Profile PA37
a) Cutting specification

	Name of the component	Length	Quantity	Catalogue code
1.	Aluminium roller shutter profile	$A_p - 90$ [mm]	$\lceil (B - H_{\text{ENDSLAT}} - 0,5 H_{\text{BOX}}) / 37 \rceil$ [pcs.]	PA37
2.	Endslat with rubber seal	L_{PA37} [mm]	1 [pcs.]	LDG40, LDG, LDG-E

SKT	PP60/12, PPD60/12, PPDA60/12
SKT + MKT	PPM60/12, PPDM60/12
SKT NOVA	PPDMW60/12, PPDAMW60/12, PPMO60/12



SKT	PPA35/12
SKT + MKT	PPAM35/12

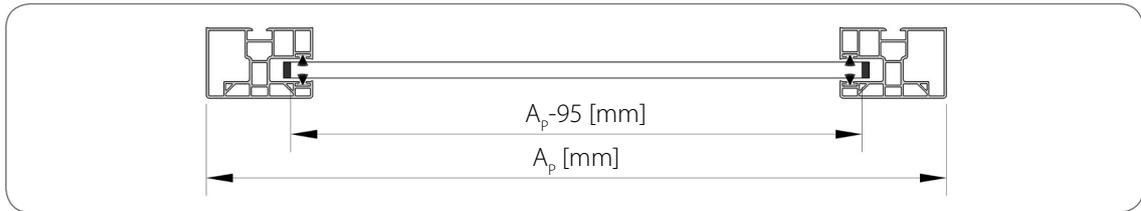

b) Other components

	Name of the component	Length	Quantity	Catalogue code		
				SKT230/170	SKT230/210	SKT255/240
1.	Endslat load	$L_{\text{ENDSLAT}} - 72$ [mm]				
	LDG40				D/LD/16	
	LDG, LDG-E				D/LD/25	
⚠ Endslat ballast is necessary for roller shutters with a width of $A \leq 1000$ mm.						
2.	Cap		QUANTITY _{PA37} [pcs.] - rounded up to even numbers		APA37/2	
3.	Mini entry guide		1 [pair]			
	PB, PBM				SLMI	
	PBM/W, ASSKT (with insect screen)				SLMI/A	
	ASSKT (without insect screen)				SLMI, SLMI/A	
4.	Steel retainer spring		$\lceil [(A - 1090) / 500] + 2 \rceil \geq 2$ [pcs.]	WM/130, WMA/130	WM/170, WMA/170	
⚠ Part number 5 should be used for manual drive or actuators with automatic limit switch setting function.						
5.	Conical stopper		2 [set]		BF/18, BF/30	

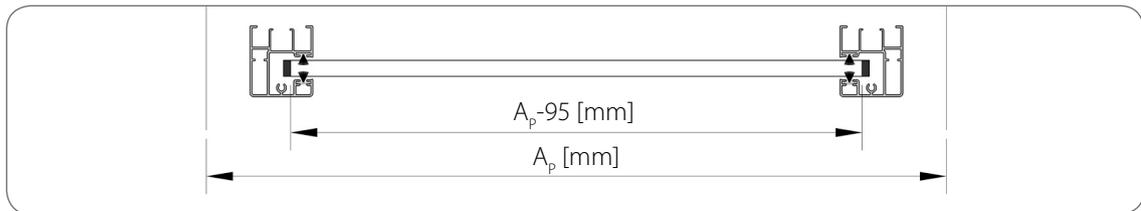
7.18.1.4. Profile PA37 with a RA automatic bolt
a) Cutting specification

	Name of the component	Length	Quantity	Catalogue code
1.	Aluminium roller shutter profile	$A_p - 95$ [mm]	$\lceil (B - H_{\text{ENDSLAT}} - 0,5 H_{\text{BOX}}) / 37 \rceil$ [pcs.]	PA37
2.	Endslat with rubber seal	L_{PA37} [mm]	1 [pcs.]	LDG, LDG-E

SKT	PP60/12, PPD60/12, PPDA60/12
SKT + MKT	PPM60/12, PPDM60/12
SKT NOVA	PPDMW60/12, PPDAMW60/12, PPMO60/12



SKT	PPA35/12
SKT + MKT	PPAM35/12

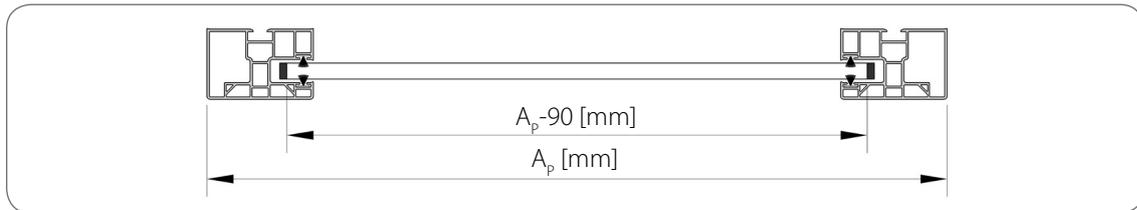

b) Other components

	Name of the component	Length	Quantity	Catalogue code		
				SKT230/170	SKT230/210	SKT255/240
1.	Endslat load	$L_{\text{ENDSLAT}} - 272$ [mm]		D/LD/25		
⚠ Endslat ballast is necessary for roller shutters with a width of $A \leq 1000$ mm.						
2.	Cap		QUANTITY _{PA37} [pcs.] - rounded up to even numbers	APA37/1		
3.	Mini entry guide		1 [pair]			
	PB, PBM			SLMI		
	PBM/W, ASSKT (with insect screen)			SLMI/A		
	ASSKT (without insect screen)			SLMI, SLMI/A		
4.	Steel retainer spring		$\lceil [(A - 1095) / 500] + 2 \rceil \geq 2$ [pcs.]	WM/130, WMA/130	WM/170, WMA/170	
5.	Conical stopper		2 [set]	BF/18, BF/30		

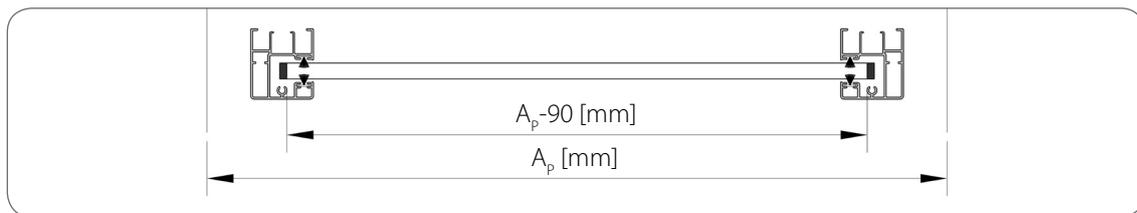
7.18.1.5. Profile PA39
a) Cutting specification

	Name of the component	Length	Quantity	Catalogue code
1.	Aluminium roller shutter profile	A_p-90 [mm]	$\lceil (B-H_{\text{ENDSLAT}}-0,5 H_{\text{BOX}})/39 \rceil$ [pcs.]	PA39
2.	Endslat with rubber seal	L_{PA39} [mm]	1 [pcs.]	LDG40, LDG, LDG-E

SKT	PP60/12, PPD60/12, PPDA60/12
SKT + MKT	PPM60/12, PPDM60/12
SKT NOVA	PPDMW60/12, PPDAMW60/12, PPMO60/12



SKT	PPA35/12
SKT + MKT	PPAM35/12

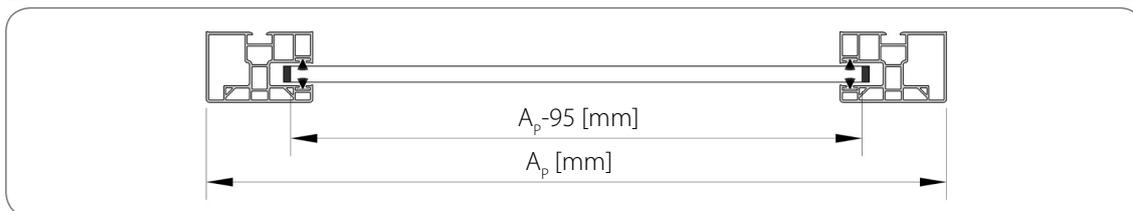

b) Other components

	Name of the component	Length	Quantity	Catalogue code		
				SKT230/170	SKT230/210	SKT255/240
1.	Endslat load	$L_{\text{ENDSLAT}} - 72$ [mm]				
	LDG40					D/LD/16
	LDG, LDG-E					D/LD/25
⚠ Endslat ballast is necessary for roller shutters with a width of $A \leq 1000$ mm.						
2.	Cap		QUANTITY _{PA39} [pcs.] - rounded up to even numbers	APA39/2/W		
3.	Mini entry guide		1 [pair]			
	PB, PBM			SLMI		
	PBM/W, ASSKT (with insect screen)			SLMI/A		
	ASSKT (without insect screen)			SLMI, SLMI/A		
4.	Steel retainer spring		$\lceil [(A-1090)/500]+2 \rceil \geq 2$ [pcs.]	WM/130, WMA/130, WS/130	WM/170, WMA/170, WS/170	
⚠ Part number 5 should be used for manual drive or actuators with automatic limit switch setting function.						
5.	Conical stopper		2 [set]	BF/18, BF/30		

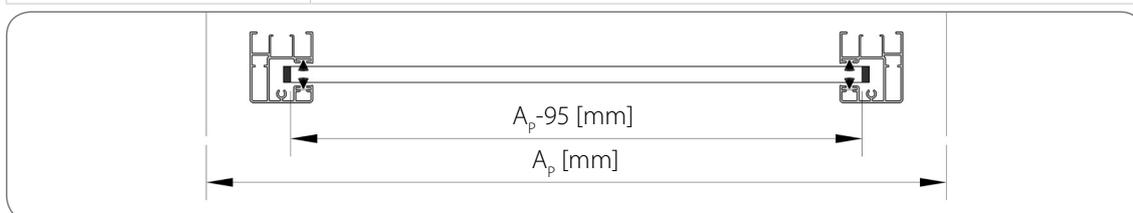
7.18.1.6. Profile PA39 with a RA automatic bolt
a) Cutting specification

	Name of the component	Length	Quantity	Catalogue code
1.	Aluminium roller shutter profile	A_p-95 [mm]	$\lceil (B-H_{\text{ENDSLAT}}-0,5 H_{\text{BOX}})/39 \rceil$ [pcs.]	PA39
2.	Endslat with rubber seal	L_{PA39} [mm]	1 [pcs.]	LDG, LDG-E

SKT	PP60/12, PPD60/12, PPDA60/12
SKT + MKT	PPM60/12, PPD60/12
SKT NOVA	PPDMW60/12, PPDAMW60/12, PPMO60/12



SKT	PPA35/12
SKT + MKT	PPAM35/12

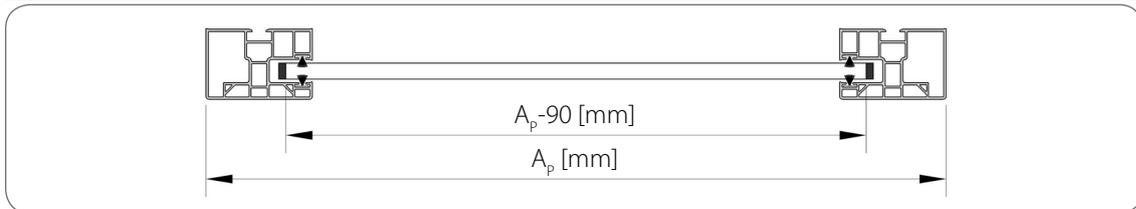

b) Other components

	Name of the component	Length	Quantity	Catalogue code		
				SKT230/170	SKT230/210	SKT255/240
1.	Endslat load	$L_{\text{ENDSLAT}} - 272$ [mm]		D/LD/25		
⚠ Endslat ballast is necessary for roller shutters with a width of $A \leq 1000$ mm.						
2.	Cap		QUANTITY_{PA39} [pcs.] - rounded up to even numbers	APA37/1		
3.	Mini entry guide		1 [pair]			
	PB, PBM			SLMI		
	PBM/W, ASSKT (with insect screen)			SLMI/A		
	ASSKT (without insect screen)			SLMI, SLMI/A		
4.	Steel retainer spring		$\lceil [(A-1095)/500]+2 \rceil \geq 2$ [pcs.]	WM/130, WMA/130, WS/130	WM/170, WMA/170, WS/170	
5.	Conical stopper		2 [set]	BF/18, BF/30		

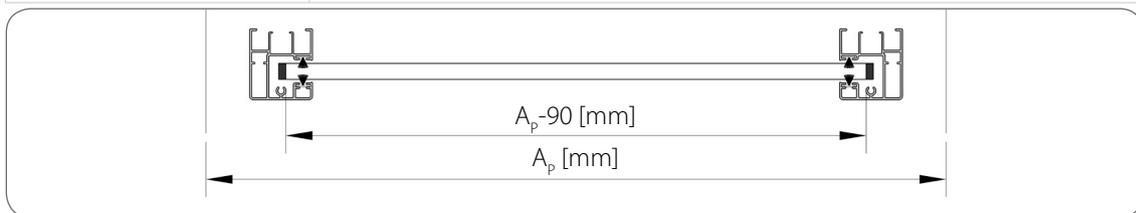
7.18.1.7. Profile PA40
a) Cutting specification

	Name of the component	Length	Quantity	Catalogue code
1.	Aluminium roller shutter profile	$A_p - 90$ [mm]	$\lceil (B - H_{\text{ENDSLAT}} - 0,5 H_{\text{BOX}}) / 40 \rceil$ [pcs.]	PA40
2.	Endslat with rubber seal	L_{PA40} [mm]	1 [pcs.]	LDG40, LDG, LDG-E

SKT	PP60/12, PPD60/12, PPDA60/12
SKT + MKT	PPM60/12, PPD60/12
SKT NOVA	PPDMW60/12, PPDAMW60/12, PPMO60/12



SKT	PPA35/12
SKT + MKT	PPAM35/12

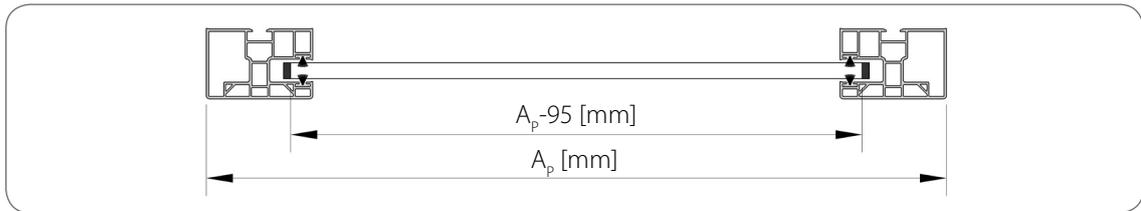

b) Other components

	Name of the component	Length	Quantity	Catalogue code		
				SKT230/170	SKT230/210	SKT255/240
1.	Endslat load	$L_{\text{ENDSLAT}} - 72$ [mm]				
	LDG40				D/LD/16	
	LDG, LDG-E				D/LD/25	
	⚠ Endslat ballast is necessary for roller shutters with a width of $A \leq 1000$ mm.					
2.	Cap		QUANTITY _{PA40} [pcs.] - rounded up to even numbers	APA40/2		
3.	Mini entry guide		1 [pair]			
	PB, PBM			SLMI		
	PBM/W, ASSKT (with insect screen)			SLMI/A		
	ASSKT (without insect screen)			SLMI, SLMI/A		
4.	Steel retainer spring		$\lceil [(A - 1090) / 500] + 2 \rceil \geq 2$ [pcs.]	WM/130, WMA/130, WMS/130	WM/170, WMA/170, WMS/170	
	⚠ Part number 5 should be used for manual drive or actuators with automatic limit switch setting function.					
5.	Conical stopper		2 [set]	BF/18, BF/30		

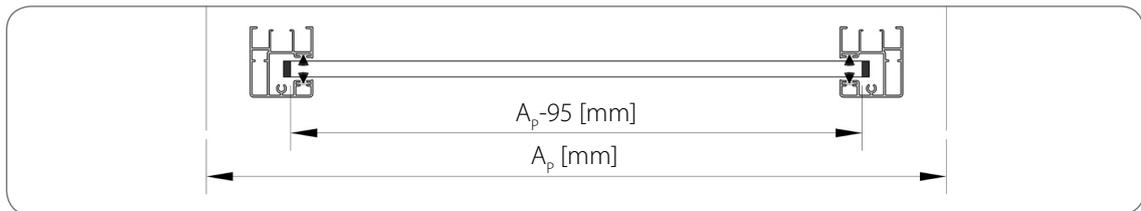
7.18.1.8. Profile PA40 with a RA automatic bolt
a) Cutting specification

	Name of the component	Length	Quantity	Catalogue code
1.	Aluminium roller shutter profile	$A_p - 95$ [mm]	$\lceil (B - H_{\text{ENDSLAT}} - 0,5 H_{\text{BOX}}) / 40 \rceil$ [pcs.]	PA40
2.	Endslat with rubber seal	L_{PA40} [mm]	1 [pcs.]	LDG, LDG-E

SKT	PP60/12, PPD60/12, PPDA60/12
SKT + MKT	PPM60/12, PPD60/12
SKT NOVA	PPDMW60/12, PPDAMW60/12, PPMO60/12



SKT	PPA35/12
SKT + MKT	PPAM35/12

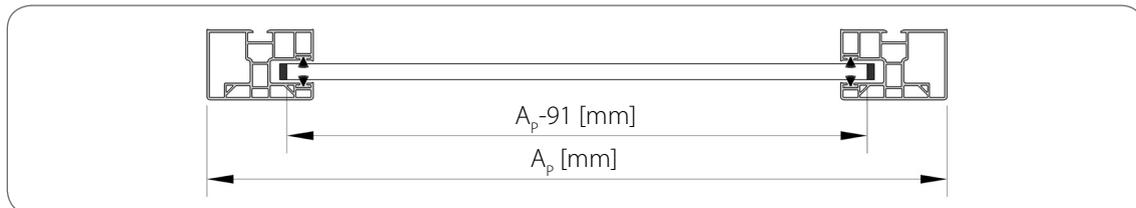

b) Other components

	Name of the component	Length	Quantity	Catalogue code		
				SKT230/170	SKT230/210	SKT255/240
1.	Endslat load	$L_{\text{ENDSLAT}} - 272$ [mm]		D/LD/25		
⚠ Endslat ballast is necessary for roller shutters with a width of $A \leq 1000$ mm.						
2.	Cap		QUANTITY_{PA40} [pcs.] - rounded up to even numbers	APA40/1		
3.	Mini entry guide		1 [pair]			
	PB, PBM			SLMI		
	PBM/W, ASSKT (with insect screen)			SLMI/A		
	ASSKT (without insect screen)			SLMI, SLMI/A		
4.	Steel retainer spring		$\lceil [(A - 1095) / 500] + 2 \rceil \geq 2$ [pcs.]	WM/130, WMA/130, WMS/130	WM/170, WMA/170, WMS/170	
5.	Conical stopper		2 [set]	BF/18, BF/30		

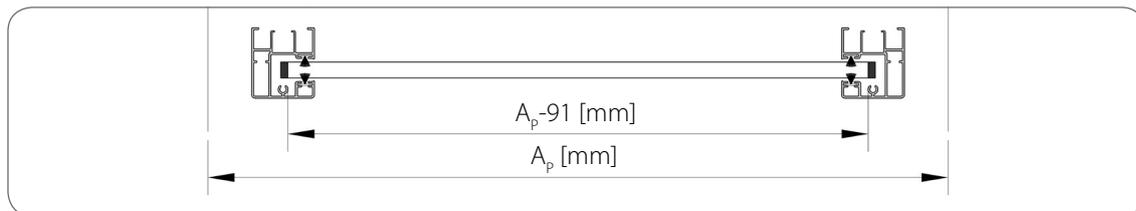
7.18.1.9. Profile PA43
a) Cutting specification

	Name of the component	Length	Quantity	Catalogue code
1.	Aluminium roller shutter profile	$A_p - 91$ [mm]	$\lceil (B - H_{\text{ENDSLAT}} - 0,5 H_{\text{BOX}}) / 43 \rceil$ [pcs.]	PA43
2.	Endslat with rubber seal	L_{PA43} [mm]	1 [pcs.]	LDG40, LDG, LDG-E

SKT	PP60/12, PPD60/12, PPDA60/12
SKT + MKT	PPM60/12, PPDM60/12
SKT NOVA	PPDMW60/12, PPDAMW60/12, PPMO60/12



SKT	PPA35/12
SKT + MKT	PPAM35/12

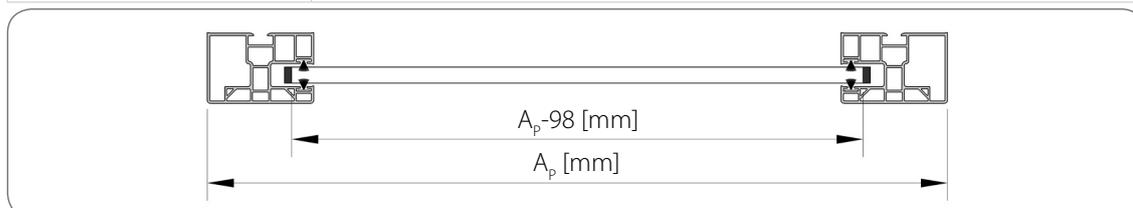

b) Other components

	Name of the component	Length	Quantity	Catalogue code		
				SKT230/170	SKT230/210	SKT255/240
1.	Endslat load	$L_{\text{ENDSLAT}} - 72$ [mm]				
	LDG40				D/LD/16	
	LDG, LDG-E				D/LD/25	
	⚠ Endslat ballast is necessary for roller shutters with a width of $A \leq 1000$ mm.					
2.	Cap		$\text{QUANTITY}_{\text{PA43}}$ [pcs.] - rounded up to even numbers		APA43/2/W	
3.	Mini entry guide		1 [pair]			
	PB, PBM				SLMI	
	PBM/W, ASSKT (with insect screen)				SLMI/A	
	ASSKT (without insect screen)				SLMI, SLMI/A	
4.	Steel retainer spring		$\lceil [(A - 1091) / 500] + 2 \rceil \geq 2$ [pcs.]	WSA/130, WMA/130, WS/130	WSA/170, WMA/170, WS/170	
	⚠ Part number 5 should be used for manual drive or actuators with automatic limit switch setting function.					
5.	Conical stopper		2 [set]		BF/18, BF/30	

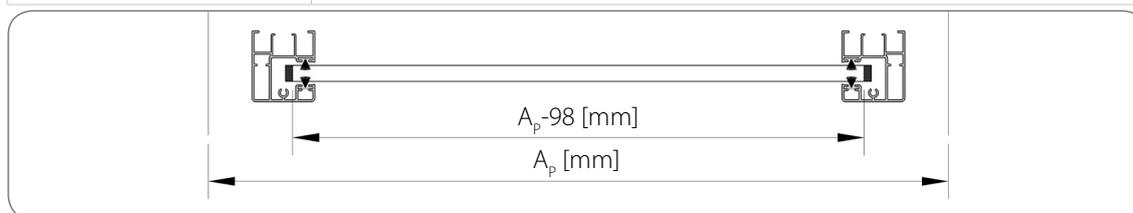
7.18.1.10. Profile PA43 with a RA automatic bolt
a) Cutting specification

	Name of the component	Length	Quantity	Catalogue code
1.	Aluminium roller shutter profile	$A_p - 98$ [mm]	$\lceil (B - H_{\text{ENDSLAT}} - 0,5 H_{\text{BOX}}) / 43 \rceil$ [pcs.]	PA43
2.	Endslat with rubber seal	L_{PA43} [mm]	1 [pcs.]	LDG, LDG-E

SKT	PP60/12, PPD60/12, PPDA60/12
SKT + MKT	PPM60/12, PPDM60/12
SKT NOVA	PPDMW60/12, PPDAMW60/12, PPMO60/12



SKT	PPA35/12
SKT + MKT	PPAM35/12

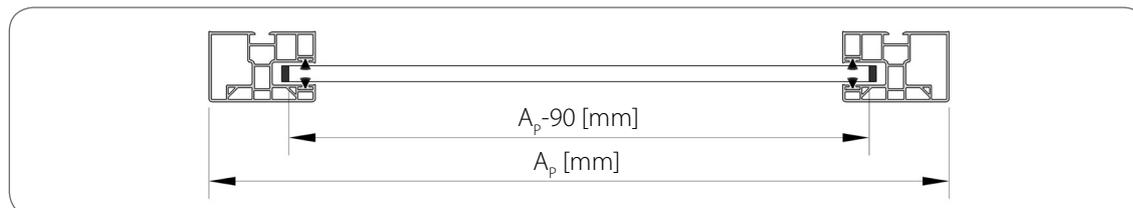

b) Other components

	Name of the component	Length	Quantity	Catalogue code		
				SKT230/170	SKT230/210	SKT255/240
1.	Endslat load	$L_{\text{ENDSLAT}} - 272$ [mm]		D/LD/25		
	⚠ Endslat ballast is necessary for roller shutters with a width of $A \leq 1000$ mm.					
2.	Cap		$QUANTITY_{\text{PA43}}$ [pcs.] - rounded up to even numbers	APA43/1		
3.	Mini entry guide		1 [pair]			
	PB, PBM			SLMI		
	PBM/W, ASSKT (with insect screen)			SLMI/A		
	ASSKT (without insect screen)			SLMI, SLMI/A		
4.	Steel retainer spring		$\lceil [(A - 1098) / 500] + 2 \rceil \geq 2$ [pcs.]	WSA/130, WMA/130, WS/130	WSA/170, WMA/170, WS/170	
5.	Conical stopper		2 [set]	BF/18, BF/30		

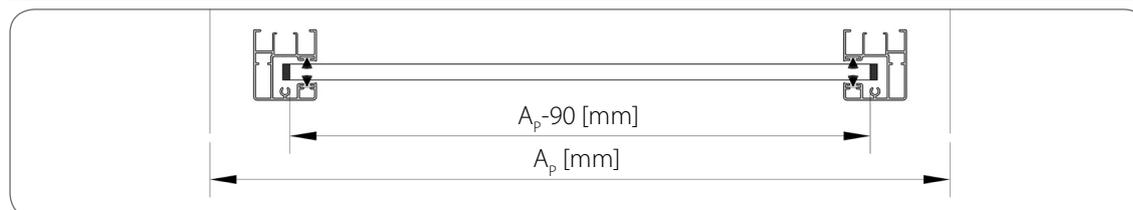
7.18.1.11. Profile PA45
a) Cutting specification

	Name of the component	Length	Quantity	Catalogue code
1.	Aluminium roller shutter profile	$A_p - 90$ [mm]	$\lceil (B - H_{\text{ENDSLAT}} - 0,5 H_{\text{BOX}}) / 45 \rceil$ [pcs.]	PA45
2.	Endslat with rubber seal	L_{PA45} [mm]	1 [pcs.]	LDG40, LDG, LDG-E

SKT	PP60/12, PPD60/12, PPDA60/12
SKT + MKT	PPM60/12, PPD60/12
SKT NOVA	PPDMW60/12, PPDAMW60/12, PPMO60/12



SKT	PPA35/12
SKT + MKT	PPAM35/12

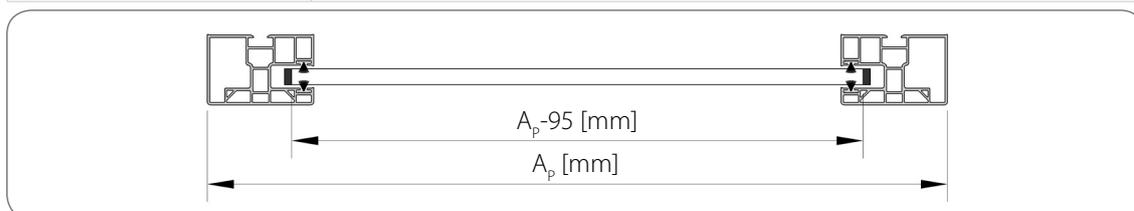

b) Other components

	Name of the component	Length	Quantity	Catalogue code		
				SKT230/170	SKT230/210	SKT255/240
1.	Endslat load	$L_{\text{ENDSLAT}} - 72$ [mm]				
	LDG40					D/LD/16
	LDG, LDG-E					D/LD/25
	⚠ Endslat ballast is necessary for roller shutters with a width of $A \leq 1000$ mm.					
2.	Cap		QUANTITY _{PA45} [pcs.] - rounded up to even numbers	APA45/2/W		
3.	Mini entry guide		1 [pair]			
	PB, PBM					SLMI
	PBM/W, ASSKT (with insect screen)					SLMI/A
	ASSKT (without insect screen)					SLMI, SLMI/A
4.	Steel retainer spring		$\lceil [(A - 1090) / 500] + 2 \rceil \geq 2$ [pcs.]	WM/130, WMA/130	WM/170, WMA/170	
	⚠ Part number 5 should be used for manual drive or actuators with automatic limit switch setting function.					
5.	Conical stopper		2 [set]	BF/18, BF/30		

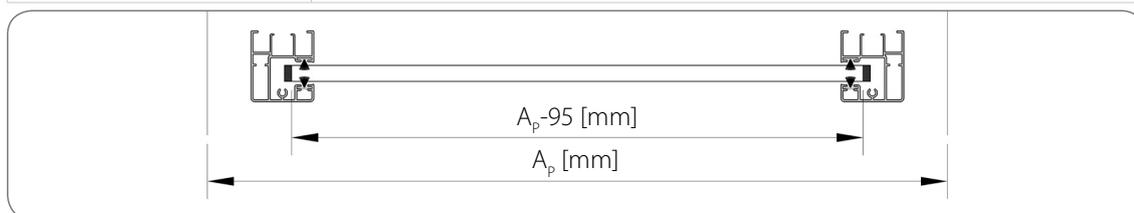
7.18.1.12. Profile PA45 with a RA automatic bolt
a) Cutting specification

	Name of the component	Length	Quantity	Catalogue code
1.	Aluminium roller shutter profile	$A_p - 95$ [mm]	$\lceil (B - H_{\text{ENDSLAT}} - 0,5 H_{\text{BOX}}) / 45 \rceil$ [pcs.]	PA45
2.	Endslat with rubber seal	L_{PA45} [mm]	1 [pcs.]	LDG, LDG-E

SKT	PP60/12, PPD60/12, PPDA60/12
SKT + MKT	PPM60/12, PPDM60/12
SKT NOVA	PPDMW60/12, PPDAMW60/12, PPMO60/12



SKT	PPA35/12
SKT + MKT	PPAM35/12

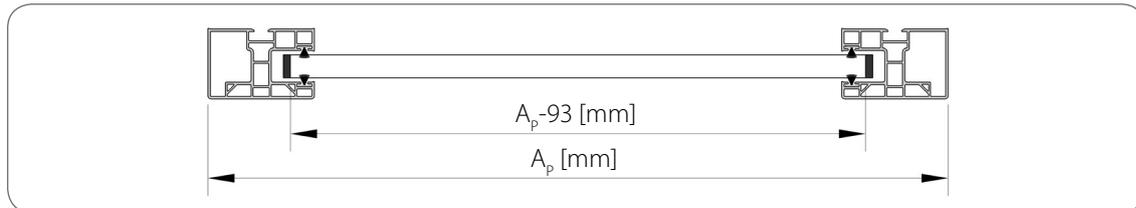

b) Other components

	Name of the component	Length	Quantity	Catalogue code		
				SKT230/170	SKT230/210	SKT255/240
1.	Endslat load	$L_{\text{ENDSLAT}} - 272$ [mm]		D/LD/25		
⚠ Endslat ballast is necessary for roller shutters with a width of $A \leq 1000$ mm.						
2.	Cap		$\text{QUANTITY}_{\text{PA45}}$ [pcs.] - rounded up to even numbers	APA45/1		
3.	Mini entry guide		1 [pair]			
	PB, PBM			SLMI		
	PBM/W, ASSKT (with insect screen)			SLMI/A		
	ASSKT (without insect screen)			SLMI, SLMI/A		
4.	Steel retainer spring		$\lceil [(A - 1095) / 500] + 2 \rceil \geq 2$ [pcs.]	WM/130, WMA/130	WM/170, WMA/170	
5.	Conical stopper		2 [set]	BF/18, BF/30		

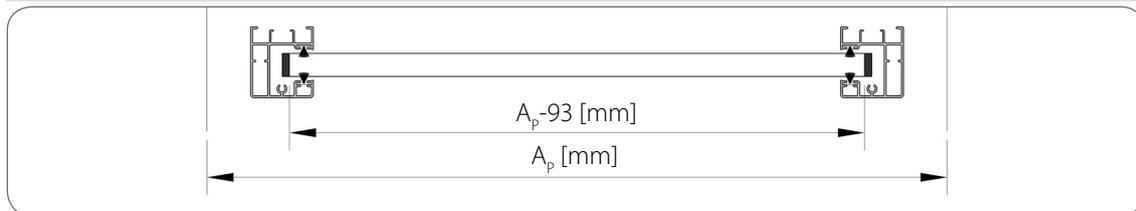
7.18.1.13. Profile PA52
a) Cutting specification

	Name of the component	Length	Quantity	Catalogue code
1.	Aluminium roller shutter profile	A_p-93 [mm]	$\lceil (B-H_{\text{ENDSLAT}}-0,5 H_{\text{BOX}})/52 \rceil$ [pcs.]	PA52
2.	Endslat with rubber seal	L_{PA52} [mm]	1 [pcs.]	LDG52, LDG52/OPT

SKT	PP60/17, PPD60/17, PPDA60/17
SKT + MKT	PPM60/17, PPDM60/17
SKT NOVA	PPDMW60/17, PPMO60/17



SKT	PPA35/17
SKT + MKT	PPAM35/17

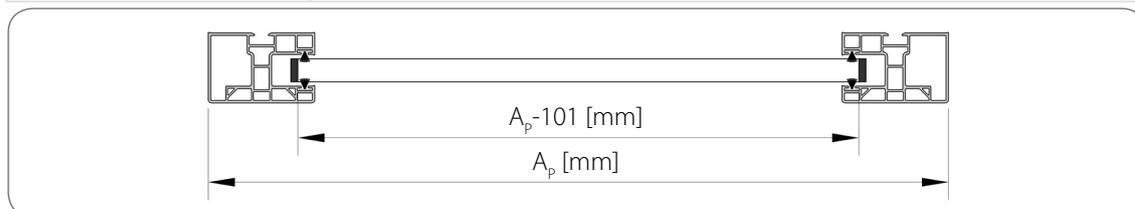

b) Other components

	Name of the component	Quantity	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	Cap	QUANTITY_{PA52} [pcs.] - rounded up to even numbers	APA52/2/W		
2.	Maxi entry guide	1 [pair]			
	PB, PBM				
	PBM/W, ASSKT (with insect screen)				
	ASSKT (without insect screen)	SLMA, SLMA/A			
3.	Steel retainer spring	$\lceil [(A-1093)/500]+2 \rceil \geq 2$ [pcs.]	WMA/130, WMS/130	WMA/170, WMS/170	
Part number 4 should be used for manual drive or actuators with automatic limit switch setting function.					
4.	Conical stopper	2 [set]	BF/18, BF/30		

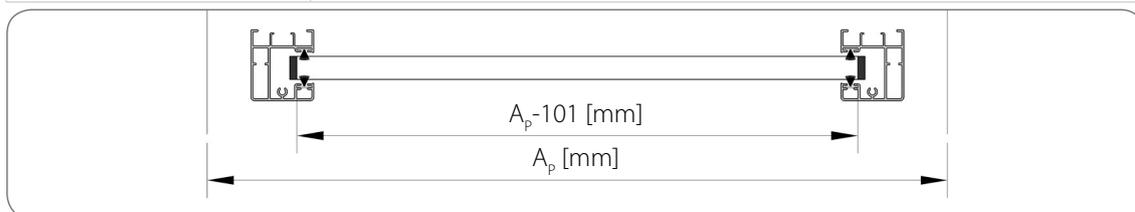
7.18.1.14. Profile PA52 with a RA automatic bolt
a) Cutting specification

	Name of the component	Length	Quantity	Catalogue code
1.	Aluminium roller shutter profile	A_p-101 [mm]	$\lceil (B-H_{\text{ENDSLAT}}-0,5 H_{\text{BOX}})/52 \rceil$ [pcs.]	PA52
2.	Endslat with rubber seal	L_{PA52} [mm]	1 [pcs.]	LDG52, LDG52/OPT

SKT	PP60/17, PPD60/17, PPDA60/17
SKT + MKT	PPM60/17, PPDM60/17
SKT NOVA	PPDMW60/17, PPMO60/17



SKT	PPA35/17
SKT + MKT	PPAM35/17

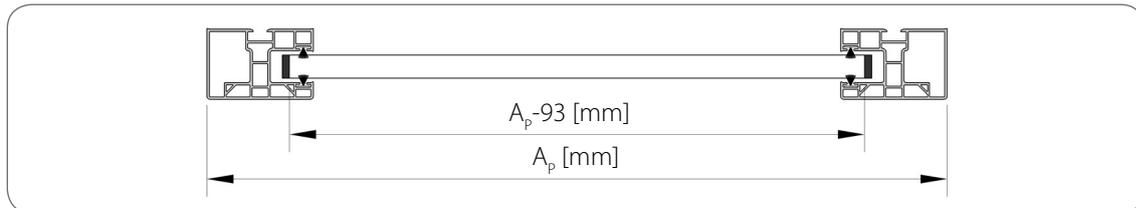

b) Other components

	Name of the component	Quantity	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	Cap	QUANTITY_{PA52} [pcs.] - rounded up to even numbers	APA52/1		
2.	Maxi entry guide	1 [pair]			
	PB, PBM		SLMA		
	PBM/W, ASSKT (with insect screen)		SLMA/A		
	ASSKT (without insect screen)		SLMA, SLMA/A		
3.	Steel retainer spring	$\lceil [(A-1101)/500]+2 \rceil \geq 2$ [pcs.]	WMA/130, WMS/130	WMA/170, WMS/170	
4.	Conical stopper	2 [set]	BF/18, BF/30		

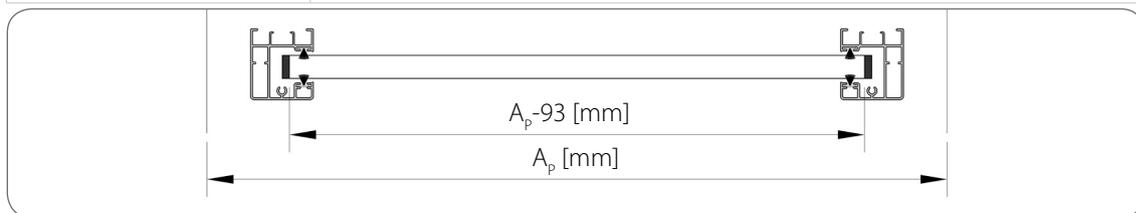
7.18.1.15. Profile PA55
a) Cutting specification

	Name of the component	Length	Quantity	Catalogue code
1.	Aluminium roller shutter profile	$A_p - 93$ [mm]	$\lceil (B - H_{\text{ENDSLAT}} - 0,5 H_{\text{BOX}}) / 55 \rceil$ [pcs.]	PA55
2.	Endslat with rubber seal	L_{PA55} [mm]	1 [pcs.]	LDG55, LDG/S

SKT	PP60/17, PPD60/17, PPDA60/17
SKT + MKT	PPM60/17, PPDM60/17
SKT NOVA	PPDMW60/17, PPMO60/17



SKT	PPA35/17
SKT + MKT	PPAM35/17

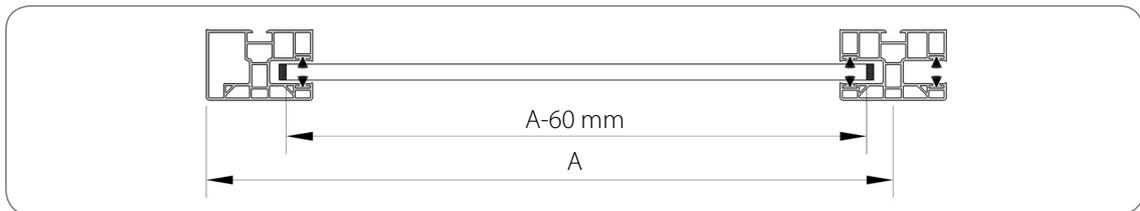

b) Other components

	Name of the component	Quantity	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	Cap	QUANTITY_{PA55} [pcs.] - rounded up to even numbers	APA55/2		
2.	Maxi entry guide	1 [pair]			
	PB, PBM		SLMA		
	PBM/W, ASSKT (with insect screen)		SLMA/A		
	ASSKT (without insect screen)		SLMA, SLMA/A		
3.	Steel retainer spring	$\lceil [(A - 1093) / 500] + 2 \rceil \geq 2$ [pcs.]	WMS/130	WMS/170	
⚠ Part number 4 should be used for manual drive or actuators with automatic limit switch setting function.					
4.	Conical stopper	2 [set]	BF/18, BF/30		

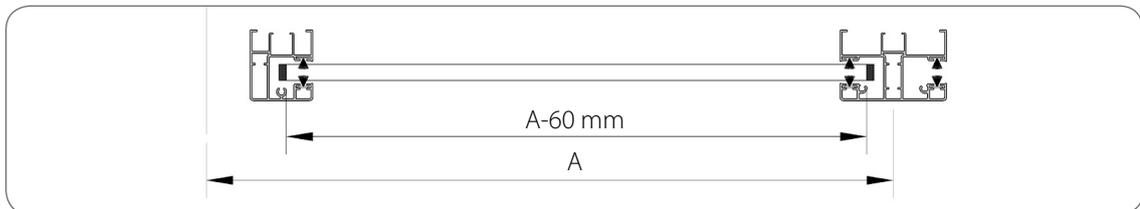
7.18.2. Curtain for set of roller shutters of the same height, with a division wall
7.18.2.1. Roller shutter curtain made of profile PA37
a) Cutting specification

	Name of the component	Length	Quantity	Catalogue code
1.	Aluminium roller shutter profile	A-60 [mm]	$\lceil (B-H_{\text{ENDSLAT}}-0,5 H_{\text{BOX}})/37 \rceil$ [pcs.]	PA37
2.	Endslat with rubber seal	L _{PA37} [mm]	1 [pcs.]	LDG, LDG-E

SKT	PP60/12 with PPD-P60/12, PPD60/12 with PPD-P60/12, PPDA60/12 with PPDA-P60/12
SKT + MKT	PPM60/12 with PPDM-P60/12, PPDM60/12 with PPDM-P60/12
SKT NOVA	PPDMW60/12 with PPDMMW-P60/12, PPDAMW60/12 with PPDAMW-P60/12, PPMO60/12 with PPMO60/12



SKT	PPA35/12 with PPDA-P60/12
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	Name of the component	Quantity	Catalogue code
3.	Cap	QUANTITY _{PA37} [pcs.] - rounded up to even numbers	APA37/2

7.18.2.2. Cutting specification for other profiles

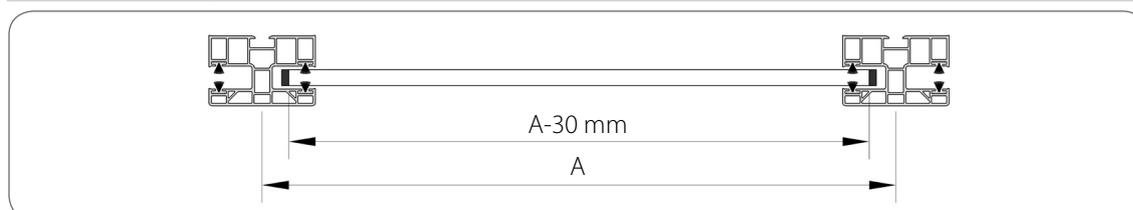
	Name of the component	Length	Catalogue code
1.	Profile	A-VALUE FROM TABLE [mm]	PT37, PT52, PA39, PA40, PA43, PA45, PA52, PA55
2.	Endslat with rubber seal	A-VALUE FROM TABLE [mm]	

Type of profile	Type of side lock	Guide channels	
		PPDA60/12 with PPDA-P60/12 PP60/12 with PPD-P60/12 PPD60/12 with PPD-P60/12 PPMO60/12 with PPMO60/12 PPA35/12 with PPDA-P60/12 PPM60/12 with PPDM-P60/12 PPDM60/12 with PPDM-P60/12 PPDMMW60/12 with PPDMMW-P60/12 PPDAMW60/12 with PPDAMW-P60/12 PPMO60/12 with PPMO60/12	PPDA60/17 with PPDA-P60/17 PP60/17 with PPD-P60/17 PPD60/17 with PPD-P60/17 PPMO60/17 with PPMO60/17 PPA35/17 with PPDA-P60/17 PPM60/17 with PPDM-P60/17 PPDM60/17 with PPDM-P60/17 PPDMMW60/17 with PPDMMW-P60/17 PPMO60/17 with PPMO60/17
PT37	APT37	52 [mm]	
PT52	APT52		54 [mm]
PA39	APA39/2/W	60 [mm]	
PA40	APA40/2	60 [mm]	
PA43	APA43/2/W	61 [mm]	
PA45	APA45/2/W	60 [mm]	
PA52	APA52/2/W		63 [mm]
PA55	APA55/2		63 [mm]

7.18.3. Curtain for middle roller shutter - if at least 1 common drive is used
7.18.3.1. Roller shutter curtain made of profile PA37
a) Cutting specification

	Name of the component	Length	Quantity	Catalogue code
1.	Aluminium roller shutter profile	A-30 [mm]	$\lceil (B-H_{\text{ENDSLAT}}-0,5 H_{\text{BOX}})/37 \rceil$ [pcs.]	PA37
2.	Endslat with rubber seal	L_{PA37} [mm]	1 [pcs.]	LDG, LDG-E

SKT	PPD-P60/12 with PPD-P60/12, PPDA-P60/12 with PPDA-P60/12
SKT + MKT	PPDM-P60/12 with PPDM-P60/12
SKT NOVA	PPDMW-P60/12 with PPDMW-P60/12, PPDAW-P60/12 with PPDAW-P60/12 PPMO60/12 with PPMO60/12



	Name of the component	Quantity	Catalogue code
3.	Cap	QUANTITY_{PA37} [pcs.] - rounded up to even numbers	APA37/2

7.18.3.2. Cutting specification for other profiles

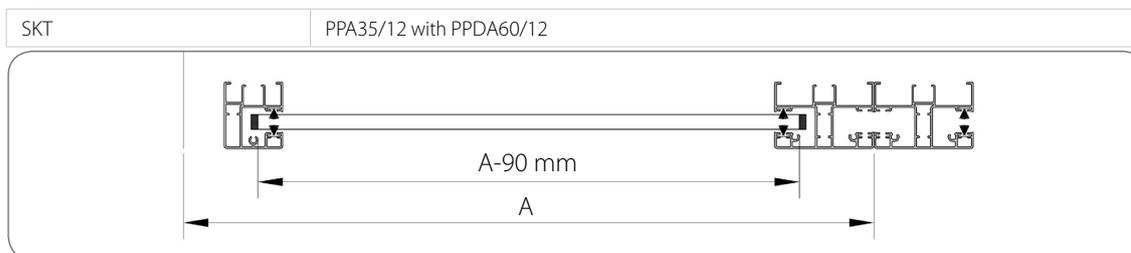
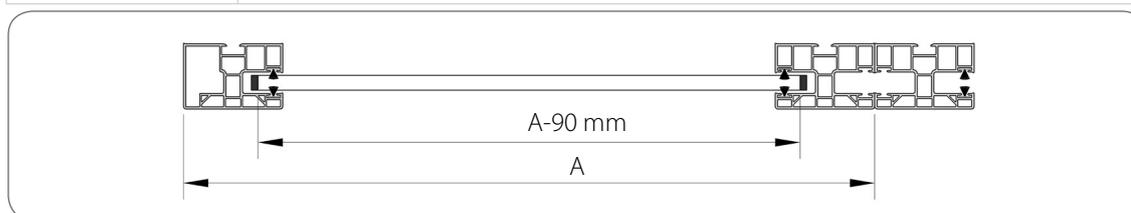
	Name of the component	Length	Catalogue code
1.	Profile	A-VALUE FROM TABLE [mm]	PT37, PT52, PA39, PA40, PA43, PA45, PA52, PA55
2.	Endslat with rubber seal	A-VALUE FROM TABLE [mm]	

Type of profile	Type of side lock	Guide channels	
		PPDA-P60/12 with PPDA-P60/12 PPD-P60/12 with PPD-P60/12 PPDM-P60/12 with PPDM-P60/12 PPDMW-P60/12 with PPDMW-P60/12 PPDAMW-P60/12 with PPDAMW-P60/12 PPMO60/12 with PPMO60/12	PPDA-P60/17 with PPDA-P60/17 PPD-P60/17 with PPD-P60/17 PPDM-P60/17 with PPDM-P60/17 PPDMW-P60/17 with PPDMW-P60/17 PPMO60/17 with PPMO60/17
PT37	APT37	22 [mm]	
PT52	APT52		24 [mm]
PA39	APA39/2/W	30 [mm]	
PA40	APA40/2	30 [mm]	
PA43	APA43/2/W	31 [mm]	
PA45	APA45/2/W	30 [mm]	
PA52	APA52/2/W		33 [mm]
PA55	APA55/2		33 [mm]

7.18.4. Curtain for set of roller shutters with a compound end cap
7.18.4.1. Roller shutter curtain made of profile PA37
a) Cutting specification

	Name of the component	Length	Quantity	Catalogue code
1.	Aluminium roller shutter profile	A-90 [mm]	$\lceil (B-H_{\text{ENDSLAT}}-0,5 H_{\text{BOX}})/37 \rceil$ [pcs.]	PA37
2.	Endslat with rubber seal	L_{PA37} [mm]	1 [pcs.]	LDG40, LDG, LDG-E

SKT	PP60/12 with PP60/12, PPD60/12 with PPD60/12, PPDA60/12 with PPDA60/12
SKT + MKT	PPM60/12 with PPM60/12, PPDM60/12 with PPDM60/12
SKT NOVA	PPDMW60/12 with PPDMW60/12, PPDAMW60/12 with PPDAMW60/12, PPMO60/12 with PPMO60/12

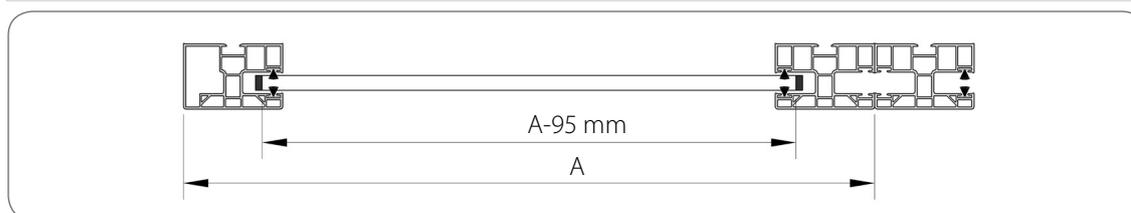


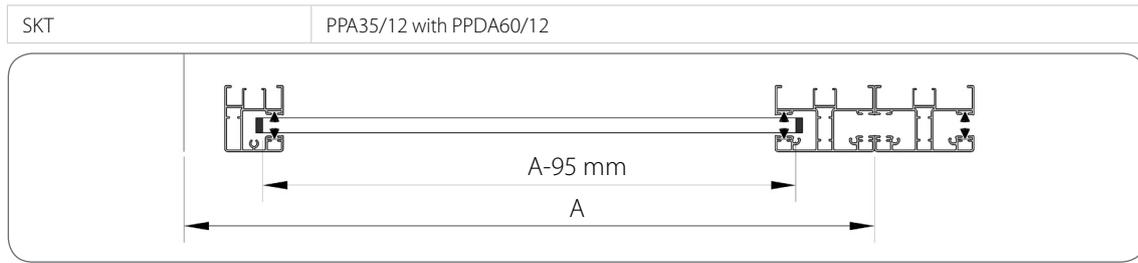
	Name of the component	Quantity	Catalogue code
3.	Cap	QUANTITY_{PA37} [pcs.] - rounded up to even numbers	APA37/2

7.18.4.2. Roller shutter curtain made of profile PA37 with a RA automatic bolt
a) Cutting specification

	Name of the component	Length	Quantity	Catalogue code
1.	Aluminium roller shutter profile	A-95 [mm]	$\lceil (B-H_{\text{ENDSLAT}}-0,5 H_{\text{BOX}})/37 \rceil$ [pcs.]	PA37
2.	Endslat with rubber seal	L_{PA37} [mm]	1 [pcs.]	LDG40, LDG, LDG-E

SKT	PP60/12 with PP60/12, PPD60/12 with PPD60/12, PPDA60/12 with PPDA60/12
SKT + MKT	PPM60/12 with PPM60/12, PPDM60/12 with PPDM60/12
SKT NOVA	PPDMW60/12 with PPDMW60/12, PPDAMW60/12 with PPDAMW60/12, PPMO60/12 with PPMO60/12





	Name of the component	Quantity	Catalogue code
3.	Cap	QUANTITY_{PA37} [pcs.] - rounded up to even numbers	APA37/2

7.18.4.3. Cutting specification for other profiles

	Name of the component	Length	Catalogue code
1.	Profile	A-VALUE FROM TABLE [mm]	PT37, PT52, PA39, PA40, PA43, PA45, PA52, PA55
2.	Endslat with rubber seal	A-VALUE FROM TABLE [mm]	

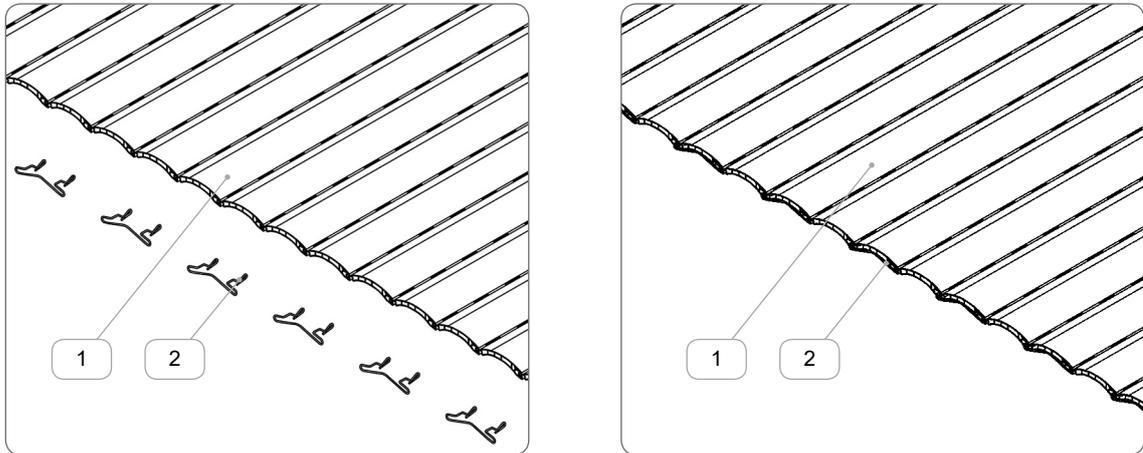
Type of profile	Type of side lock	Protection	Guide channels	
			PPDA60/12 with PPDA60/12+PPDA60/12 PP60/12 with PP60/12+PP60/12 PPD60/12 with PPD60/12+PPD60/12 PPMO60/12 with PPMO60/12+PPMO60/12 PPM60/12 with PPM60/12+PPM60/12 PPDM60/12 with PPDM60/12+PPDM60/12 PPDMW60/12 with PPDMW60/12+PPDMW60/12 PPDMW60/12 with PPDMW60/12+PPDMW60/12	PPDA60/17 with PPDA60/12+PPDA60/17 PP60/17 with PP60/17+PP60/17 PPD60/17 with PPD60/17+PPD60/17 PPMO60/17 with PPMO60/17+PPMO60/17 PPM60/17 with PPM60/17+PPM60/17 PPDM60/17 with PPDM60/17+PPDM60/17 PPDMW60/17 with PPDMW60/17+PPDMW60/17
PT37	APT37		82 [mm]	
PT52	APT52			84 [mm]
PA39	APA39/2/W		90 [mm]	
	APA37/1	RA	95 [mm]	
PA40	APA40/2		90 [mm]	
	APA40/1	RA	95 [mm]	
PA43	APA43/2/W		91 [mm]	
	APA43/1	RA	98 [mm]	
PA45	APA45/2/W		90 [mm]	
	APA45/1	RA	95 [mm]	
PA52	APA52/2/W			93 [mm]
	APA52/1	RA		101 [mm]
PA55	APA55/2			93 [mm]

7.18.5. Installation of roller shutter curtain

In order to reduce the friction of the roller shutter curtain during lifting and lowering, the profiles should be secured with side locks.

7.18.5.1. Curtain made of plastic profiles

In a assembled curtain insert plugs.

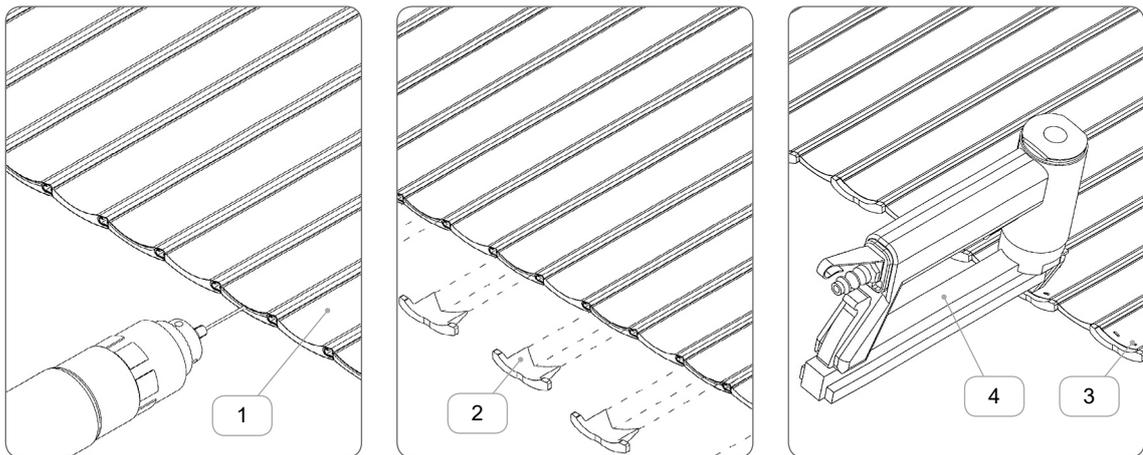


	Name of the component	Catalogue code
1.	PVC roller shutter profile	PT37, PT52
2.	Profile's side lock	APT37, APT52

7.18.5.2. Curtain made out of aluminium roller shutter profile filled with CFC-free foam

Variant I - with need of milling

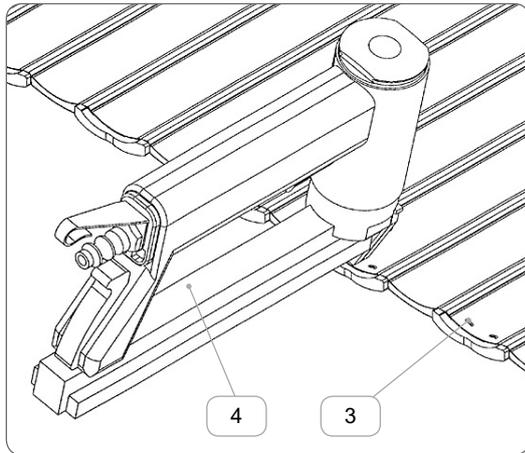
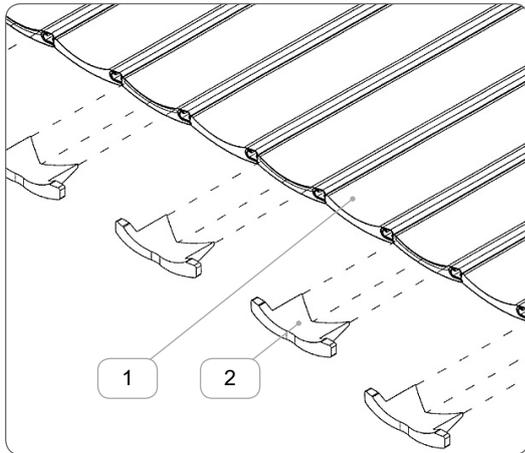
Mill the holes in the profiles of the assembled curtain, insert side locks and secure them with stitches.



	Name of the component	Catalogue code
1.	Aluminium profile	PA37, PA40, PA55
2.	Profile's side lock	APA37/2, APA40/2, APA55/2
3.	Stitches	NK/97/4, NK/97/6HZ
4.	Stapler	ZSZ

Variant II - without need of milling

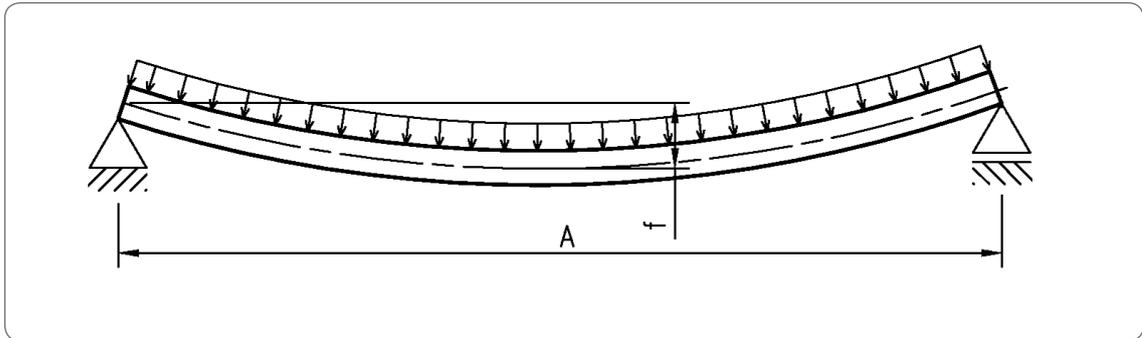
Insert side locks into assembled curtain and secure them with stitches.



	Name of the component	Catalogue code
1.	Aluminium profile	PA39, PA43, PA45, PA52
2.	Profile's side lock	APA39/2/W, APA43/2/W, APA45/2/W, APA52/2/W
3.	Stitches	NK/97/4, NK/97/6HZ
4.	Stapler	ZSZ

8. REEL

8.1. Specification of allowable loads taking into account the weight of the reel



f - allowable deflection

A [mm]	f [mm]	Allowable reel load [kg]				
		SW 4005	SW 4006	SW 5006	SW 6006	SW 6010
1000	2,0	44,0	52,0	135,0	180,0	265,0
1100	2,2	36,0	43,0	111,0	145,0	220,0
1200	2,4	30,0	36,0	93,0	120,0	180,0
1300	2,6	25,0	30,0	79,0	105,0	155,0
1400	2,8	21,5	26,0	76,0	90,0	130,0
1500	3,0	18,5	22,0	59,0	78,0	115,0
1600	3,2	16,0	19,0	51,0	68,0	100,0
1700	3,4	14,0	17,0	45,0	60,0	88,0
1800	3,6	12,5	15,0	40,0	53,0	79,0
1900	3,8	11,0	13,2	36,0	48,0	71,0
2000	4,0	10,0	11,6	32,0	43,0	63,0
2100	4,2	8,8	10,5	29,0	38,0	57,0
2200	4,4	7,8	9,5	26,0	35,0	51,0
2300	4,6	7,0	8,5	24,0	31,5	46,0
2400	4,8	6,4	7,6	21,9	29,0	42,0
2500	5,0	5,7	6,8	20,1	26,0	38,5
2600	5,2	5,2	6,1	18,4	24,0	35,0
2700	5,4	4,6	5,5	16,9	22,0	32,0
2800	5,6	4,2	4,9	15,6	20,0	29,5
2900	5,8	3,7	4,4	14,4	18,5	27,0
3000	6,0	3,3	4,0	13,3	17,0	25,0
3100	6,2	3,0	3,5	12,3	15,8	23,0
3200	6,4	2,7	3,2	11,4	14,5	21,0
3300	6,6	2,4	2,8	10,5	13,4	19,5
3400	6,8	2,1	2,5	9,8	12,4	18,0
3500	7,0	1,8	2,2	9,1	11,4	16,5
3600	7,2	1,6	1,9	8,4	10,5	15,2
3700	7,4	1,4	1,6	7,8	9,7	14,0
3800	7,6	1,1	1,3	7,3	8,9	12,8
3900	7,8	0,9	1,1	6,8	8,2	11,8
4000	8,0	0,7	0,9	6,3	7,5	10,8
4100	8,2	-	-	5,8	6,9	9,9
4200	8,4	-	-	5,4	6,3	9,0
4300	8,6	-	-	5,0	5,7	8,2
4400	8,8	-	-	4,6	5,2	7,4
4500	9,0	-	-	4,3	4,7	6,7

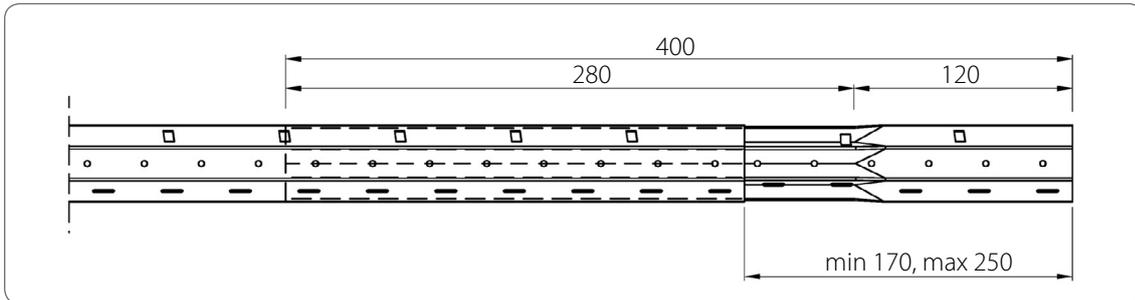
8.2. Telescopic reels

- ⚠ 1. The length of SW reel and the extension of **SWT** telescopic reel should be determined each time.
- 2. Drive must be placed on the opposite side of the telescopic reel.

8.2.1. Telescopic reel - SWT40

- ⚠ SWT40 telescopic reel fits SW4005 and SW4006 reels.

	Name of the component	Reel extension		Catalogue code
		Minimal	Maximum	
1.	Telescopic reel	170 [mm]	250 [mm]	SWT40

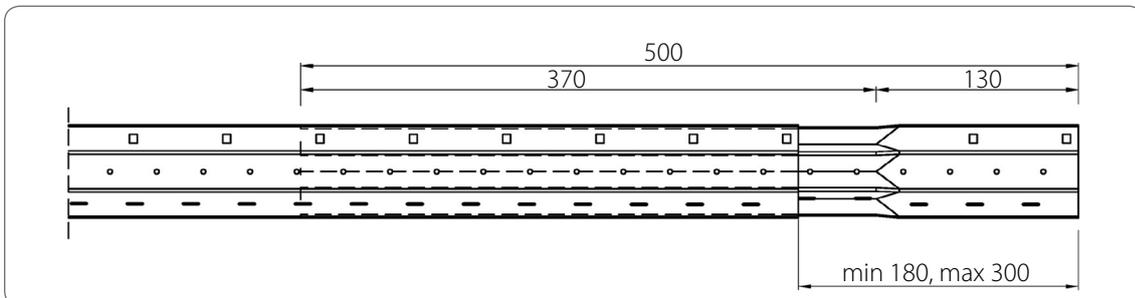


Minimum width of roller shutter with SWT 40 telescopic reel	
Drive type	Minimum width of roller shutter
Manual drive with a coiler	540 [mm]
Manual drive with an ACEC gear mechanism	585 [mm]
Drive with an electric actuator	475 + L _{MOTOR} [mm]

8.2.2. Telescopic reel - SWT60

- ⚠ SWT60 telescopic reel fits SW6006 and SW6010 reels.

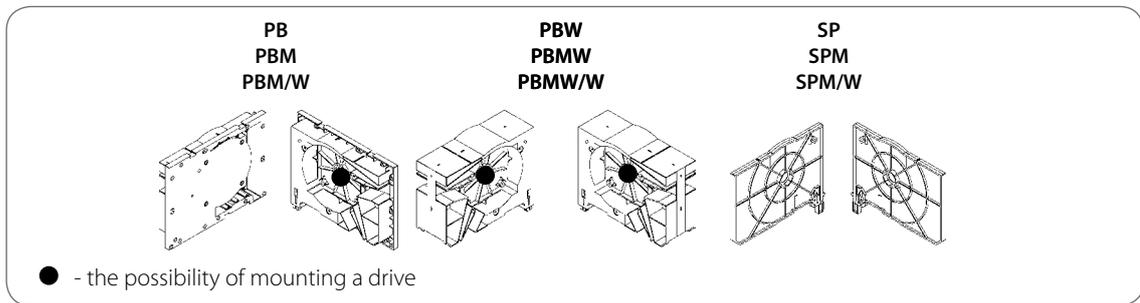
	Name of the component	Reel extension		Catalogue code
		Minimal	Maximum	
1.	Telescopic reel	180 [mm]	300 [mm]	SWT60



Minimum width of roller shutter with SWT 60 telescopic reel	
Drive type	Minimum width of roller shutter
Manual drive with a coiler	720 [mm]
Manual drive with an ACEC gear mechanism	695 [mm]
Drive with an electric actuator	600 + L _{MOTOR} [mm]

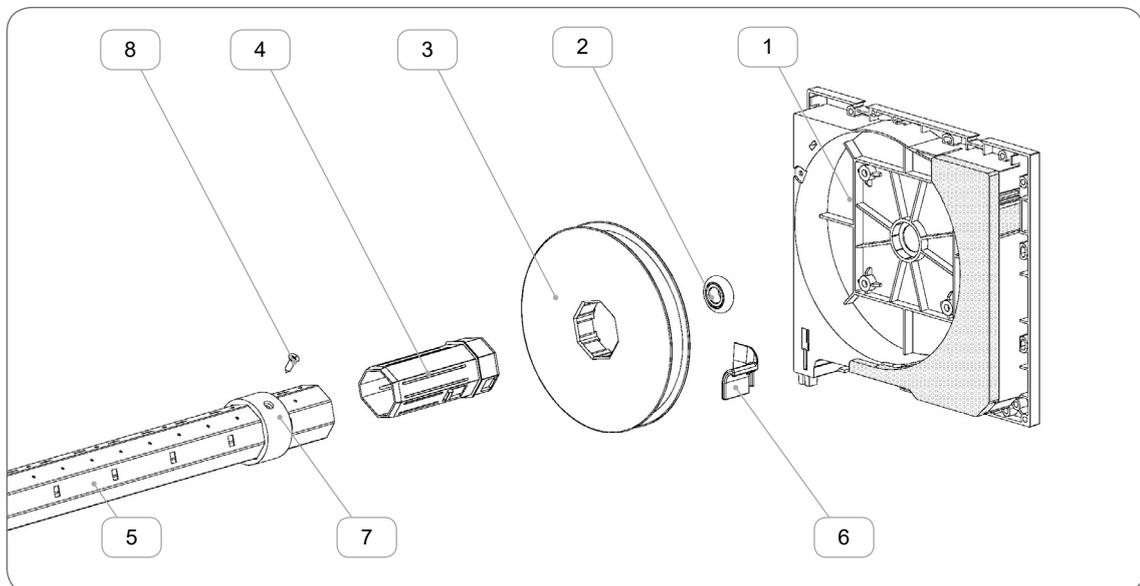
9. TYPES OF MANUAL DRIVES

 Types of drives arrangement depending on the end cap or the division wall:



9.1. Pulleys

9.1.1. List of components - if used reel SW40

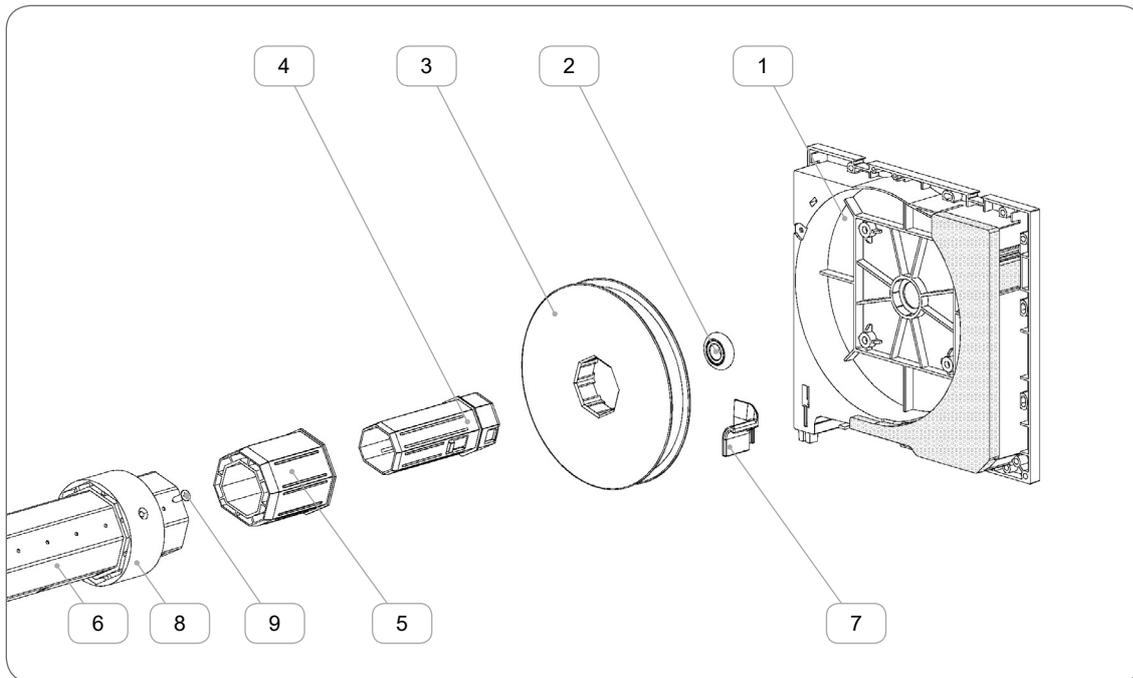


	Name of the component	Length	Quantity	Catalogue code		
				SKT230/170	SKT230/210	SKT255/240
1.	end cap		1 [pair]	PB/230/170 PBM/230/170 PBM/W/230/170	PB/230/210 PBM/230/210 PBM/W/230/210	PB/255/240 PBM/255/240 PBM/W/255/240
2.	Ball bearing Ø28 mm		1 [pcs.]	LO28		
3.	Pulley without cap		1 [pcs.]	KN/12	KN/17	KN/19
4.	Cap		1 [pcs.]	OBSC40KN		
5.	Octagonal galvanized steel reel Ø40	A-100 [mm]	1 [pcs.]	SW4005, SW4006		
6.	Entry guide		1 [pair]	SLMI, SLMA, SLMI/A, SLMA/A		

Optional elements

	Name of the component	Quantity	Catalogue code
7.	Adapting ring for reel	$\lceil \frac{L_{SW}-1000}{500} + 3 \rceil \geq 3$ [pcs.]	PZ/45
8.	Galvanized cone screw 3.9 x 16 mm	QUANTITY _{PZ} [pcs.]	WKR/Zn/S/3,9x16

9.1.2. List of components - if used reel SW50 or SW60

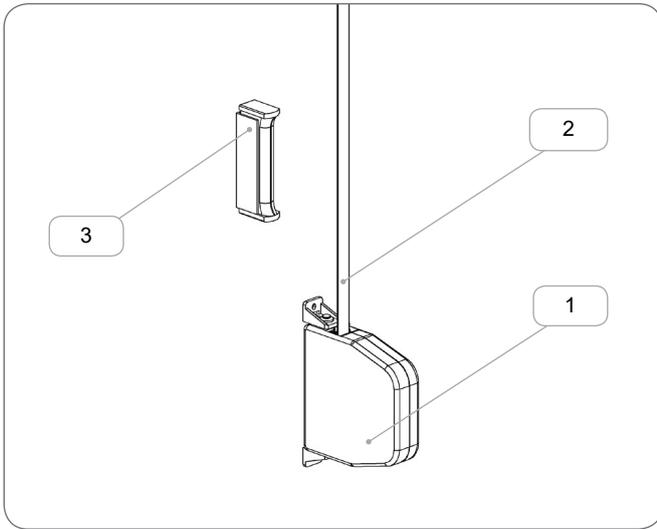


	Name of the component	Length	Quantity	Catalogue code		
				SKT230/170	SKT230/210	SKT255/240
1.	end cap		1 [pair]	PB/230/170	PB/230/210	PB/255/240
2.	Ball bearing Ø28 mm		1 [pcs.]	LO28		
3.	Pulley without cap		1 [pcs.]	KN/12	KN/17	KN/19
4.	Cap		1 [pcs.]	OBSC40KN		
5.	Reduction		1 [pcs.]			
	SW50			RED40/50		
	SW60			RED40/60		
6.	Octagonal galvanized steel reel Ø60	A-100 [mm]	1 [pcs.]			
	Ø50			SW5006		
	Ø60			SW6006, SW6010		
7.	Entry guide		1 [pair]	SLMI, SLMA, SLMI/A, SLMA/A		

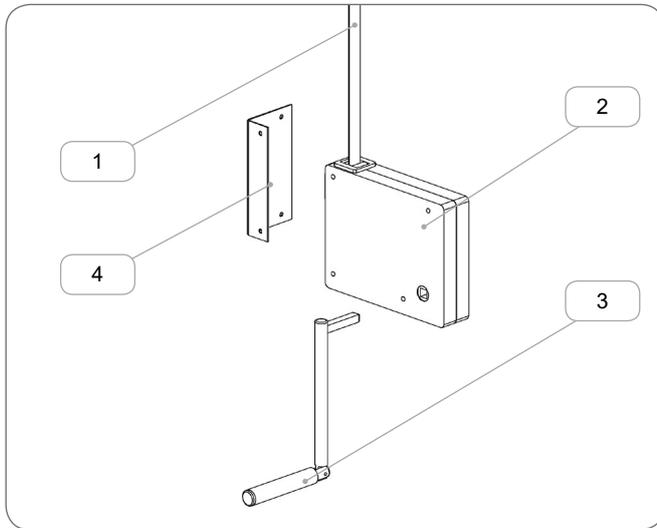
Optional elements

	Name of the component	Quantity	Catalogue code
8.	Adapting ring for reel	$\lceil \frac{(L_{sw}-1000)}{500} + 3 \rceil \geq 3$ [pcs.]	
	SW50		PZ/56
	SW60		PZ/68
9.	Galvanized cone screw 3,9 x 16 mm	QUANTITY _{PZ} [pcs.]	WKR/Zn/S/3,9x16

9.1.3. Drive operation

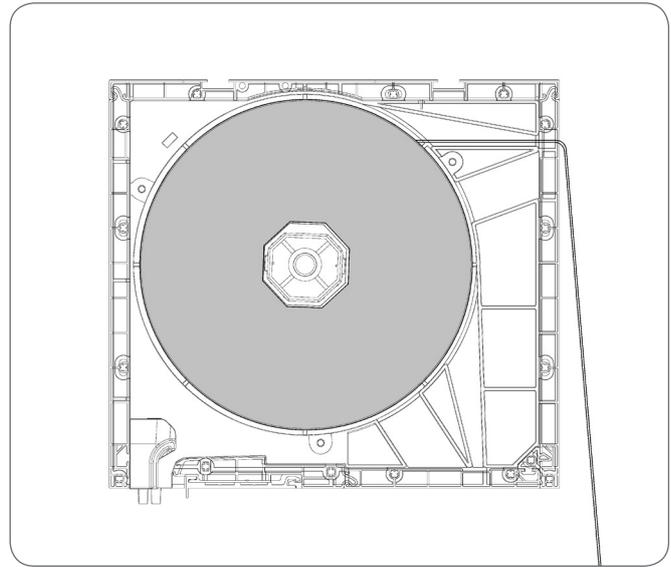
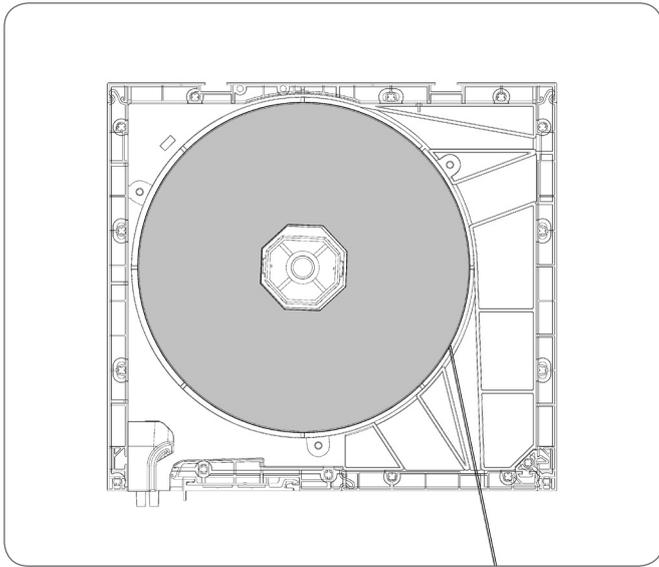


	Name of the component	Length	Quantity	Catalogue code
1.	Outside strap box coiler 14 mm		1 [pcs.]	ZWP 5, ZWP 5/I, ZAP, ZWU, ZPP 14/A
2.	Strap	2 x B + 1500 [mm]	1 [pcs.]	TS14, TS/A14
3.	Strap/rope grip		1 [pcs.]	UTL



	Name of the component	Length	Quantity	Catalogue code
1.	Strap	2 x B + 1500 [mm]	1 [pcs.]	TS14, TS/A14
2.	Winch for 14 mm strap 14 mm		1 [pcs.]	KPP
3.	Handle Mignon		1 [pcs.]	KRM/140
4.	Angle for rope and strap winch		1 [pcs.]	PMZ

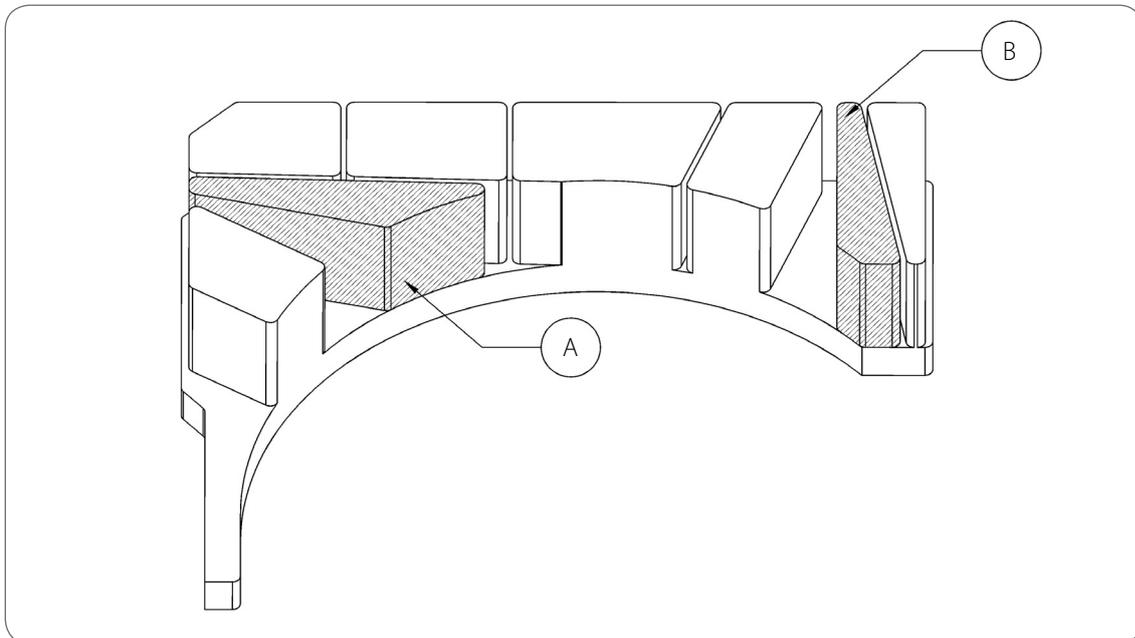
9.1.4. Installation of the strap output



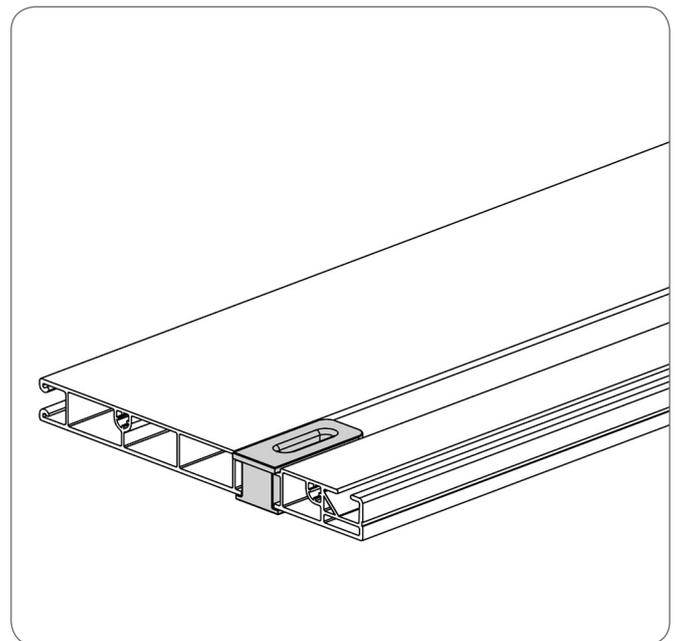
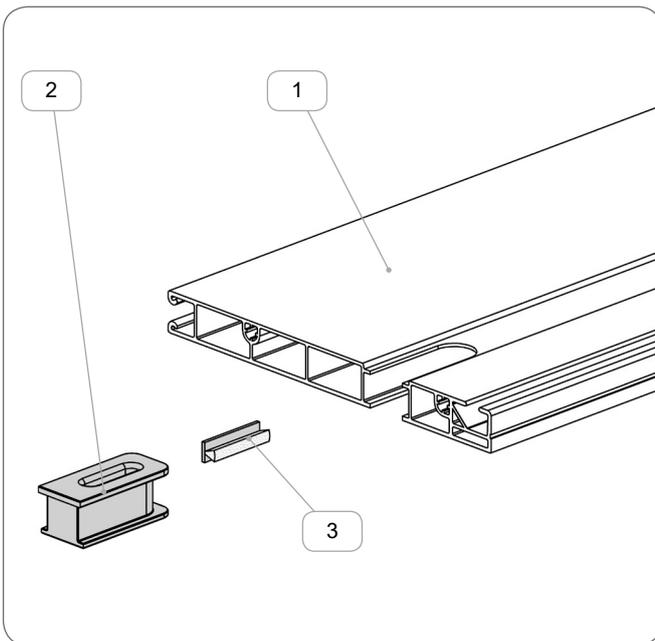
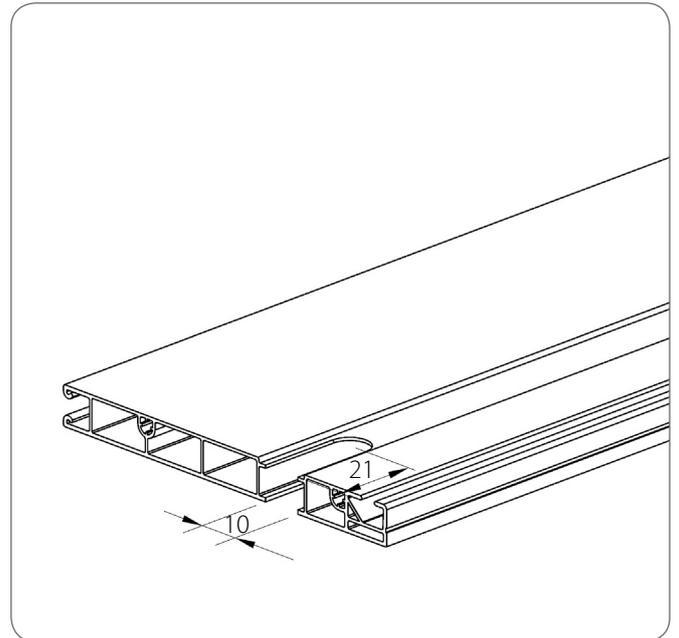
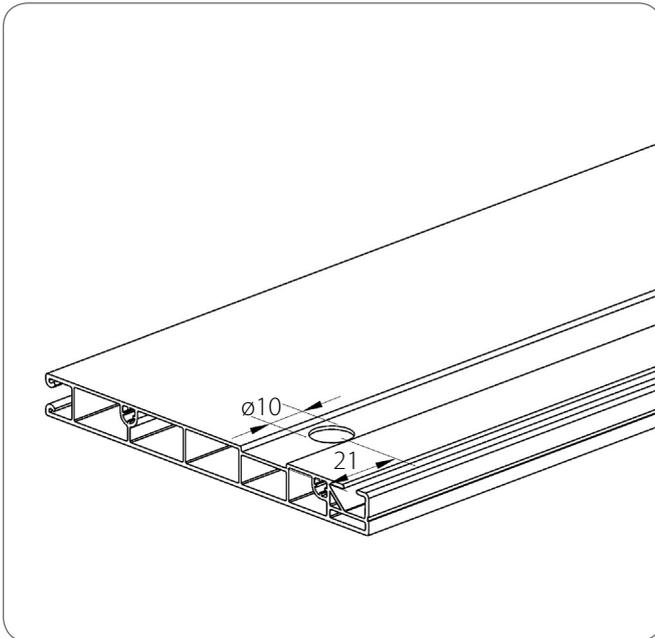
⚠ If PSBO profile is used output is possible only from the bottom.

Depending on the tape output remove the relevant part of the side cover insulation:

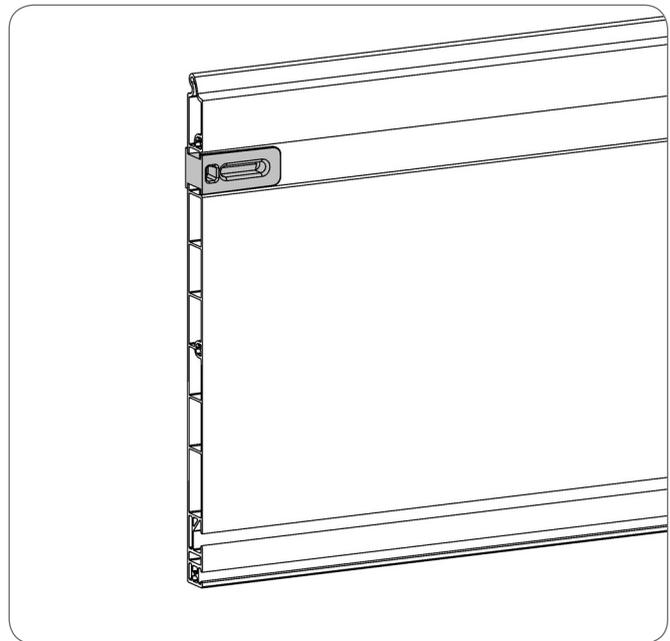
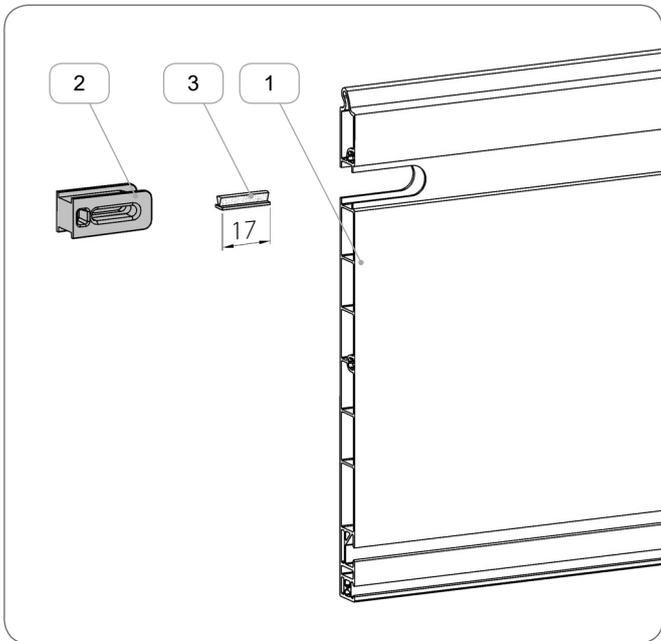
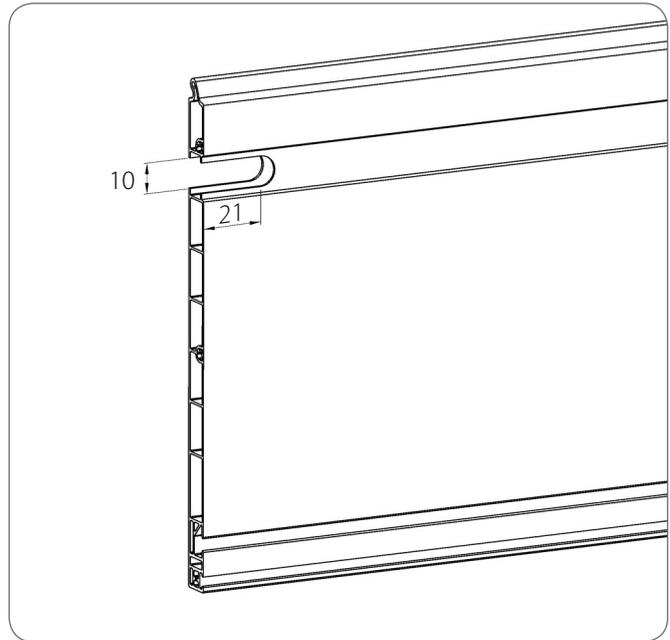
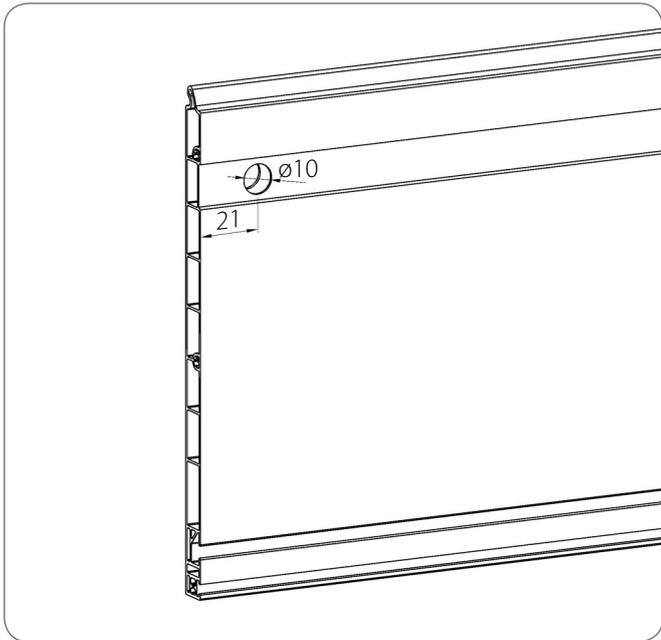
- ⚠ - Strap guide mounted in in base revision profile - A molding
- Strap guide mounted in side profile - B molding



9.1.5. Installation of the strap guide



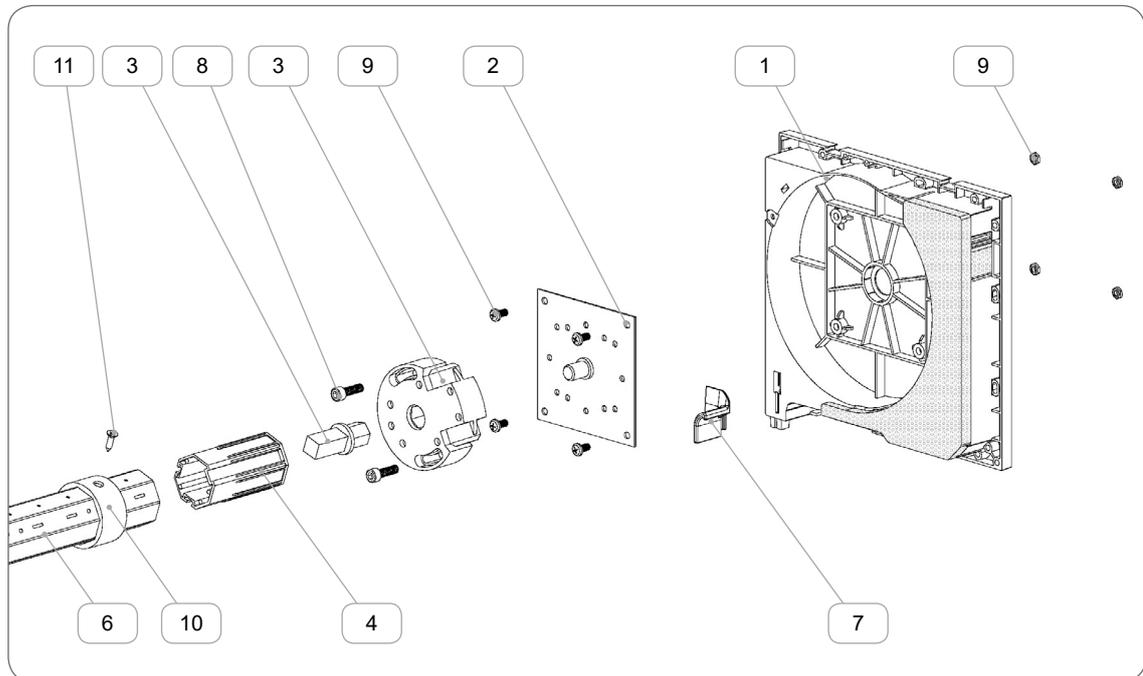
	Name of the component	Length	Quantity	Catalogue code
1.	Shutter box base revision profile			PSRD/100, PSRD/125, PSRD/MKT/78
2.	Strap guide		1 [pcs.]	PP
3.	Brush seal	17 [mm]	1 [pcs.]	U/PSB/R



	Name of the component	Length	Quantity	Catalogue code
1.	SKT box - side profile			PSB/170, PSB/210, PSB/240
2.	Strap guide		1 [pcs.]	PP
3.	Brush seal	17 [mm]	1 [pcs.]	U/PSB/R

9.2. Gear mechanism ACEC

9.2.1. List of components

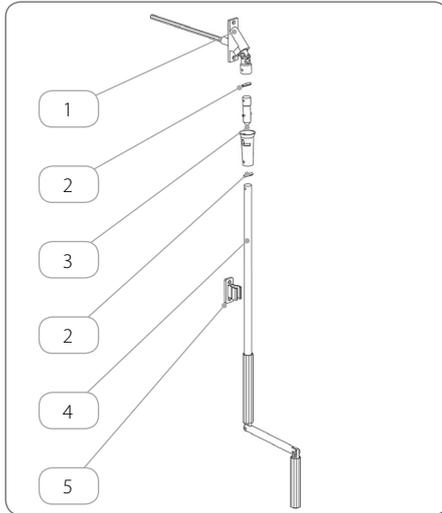


	Name of the component	Length	Quantity	Catalogue code		
				SKT230/170	SKT230/210	SKT255/240
1.	End cap		1 [pair]	PB/230/170, PBM/230/210, PBM/W/255/240	PB/230/210, PBM/230/210, PBM/W/230/210	PB/255/240, PBM/255/240, PBM/W/255/240
2.	Plate for gear mechanism ACEC		1 [pcs.]	PAC		
3.	Gear mechanism ACEC (with pivot) max. Torque ≤ 12 Nm max. Torque ≤ 18 Nm		1 [pcs.]	ACEC/7		
				ACEC/10		
4.	Cap for ACEC gear mechanism SW40, SW50 SW60		1 [pcs.]	OBS40ACC		
				OBS60ACC		
⚠ For SW5006 reel, use RED40/50 reducer (item 5) with OBS40ACC cap with clips.						
5.	Reduction		1 [pcs.]	RED40/50		
6.	Octagonal galvanized steel reel Ø40 Ø50 Ø60	A-110 [mm]	1 [pcs.]	SW4005, SW4006		
				SW5006		
				SW6006, SW6010		
7.	Entry guide		1 [pair]	SLMI, SLMA, SLMI/A, SLMA/A		
8.	Allen bolt M6 x 20 DIN 912		2 [pcs.]			
9.	Fasteners M5 x 10 mm		4 [set]	ELZM5		

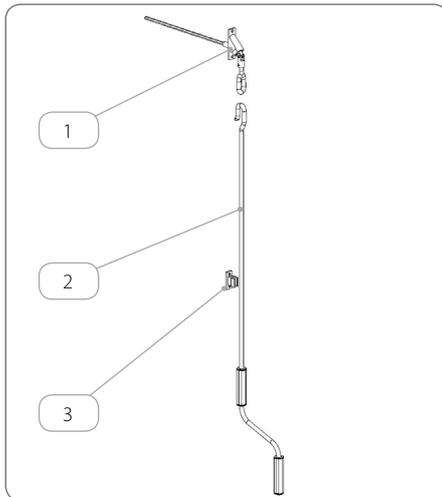
Optional elements

	Name of the component	Quantity	Catalogue code
10.	Adapting ring for reel	$\lceil [(L_{SW}-1000)/500]+3 \rceil \geq 3$ [pcs.]	PZ/45
11.	Galvanized cone screw 3.9 x 16 mm	QUANTITY _{ADAPTING RING} [pcs.]	WKR/Zn/S/3,9x16

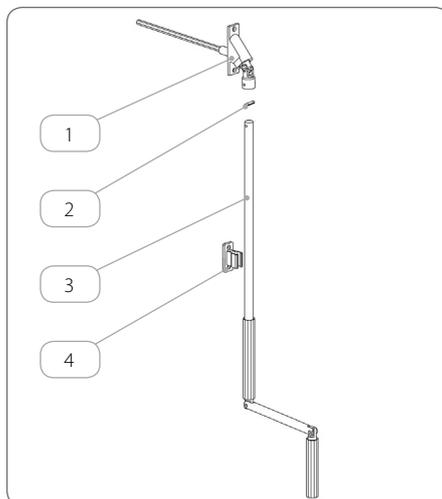
9.2.2. Drive operation



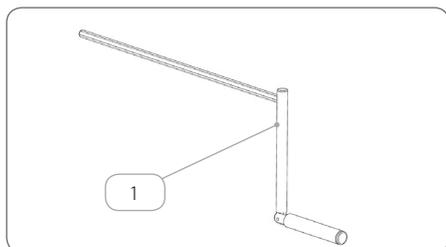
	Name of the component	Quantity	Catalogue code
1.	Cardan joint	1 [pcs.]	PKC45, PKC90
2.	Joint	1 [pcs.]	ZAW
3.	Hook for cardan joint	1 [pcs.]	ZDZ2
4.	Handle 1500 mm	2 [pcs.]	KRC
5.	Handle lock	1 [pair]	UKR



	Name of the component	Quantity	Catalogue code
1.	Cardan joint with eye	1 [pcs.]	PKUC45, PKUC90
2.	Handle with hook	1 [pcs.]	KRH150, KRH180
3.	Handle lock	1 [pair]	UKR

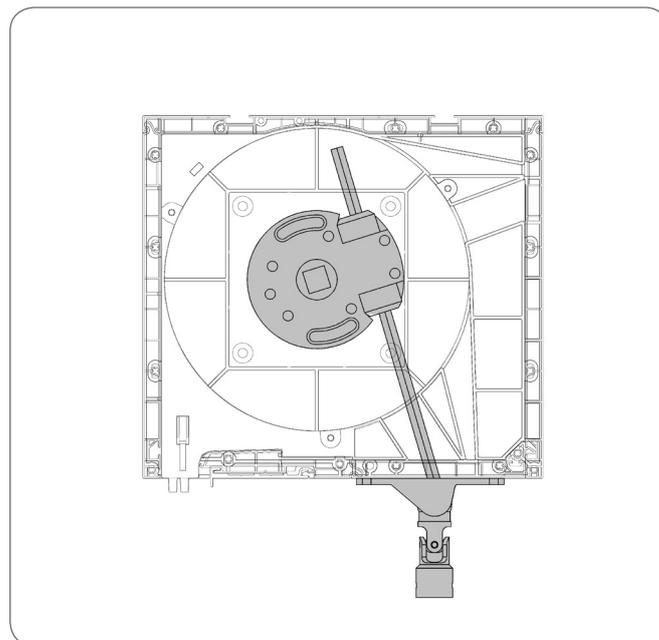
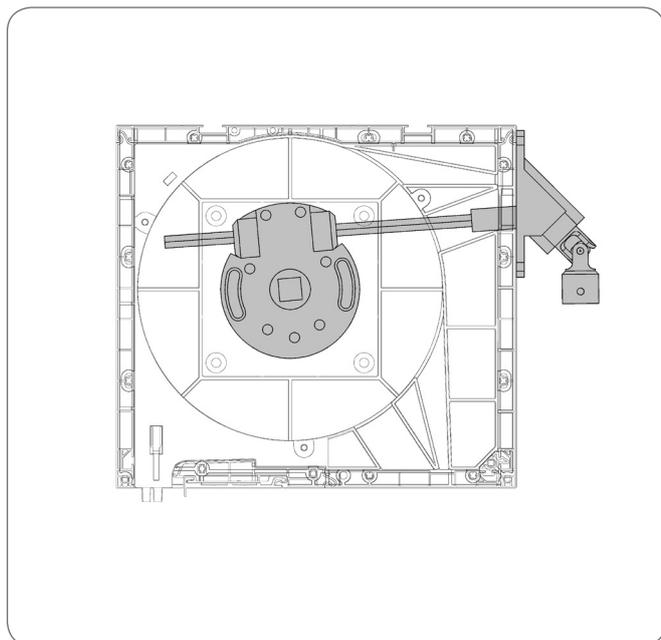


	Name of the component	Quantity	Catalogue code
1.	Cardan joint	1 [pcs.]	PKC45, PKC90
2.	Joint	1 [pcs.]	ZAW
3.	Handle 1500 mm	2 [pcs.]	KRC
4.	Handle lock	1 [pair]	UKR



	Name of the component	Quantity	Catalogue code
1.	Handle	1 [pcs.]	KR

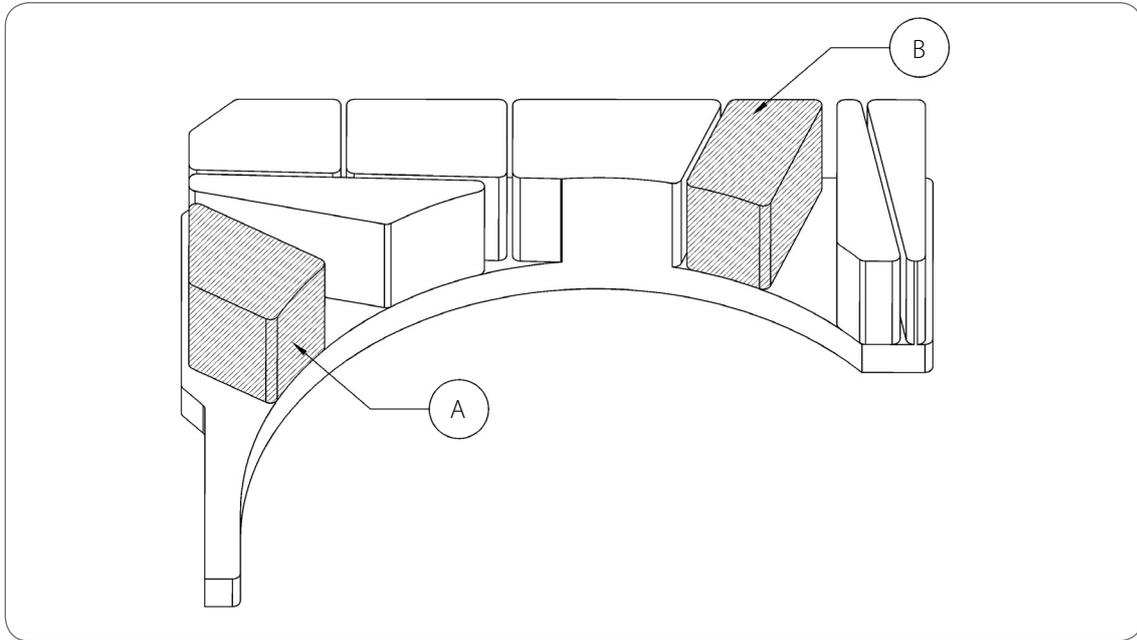
9.2.3. Possible crank outlet

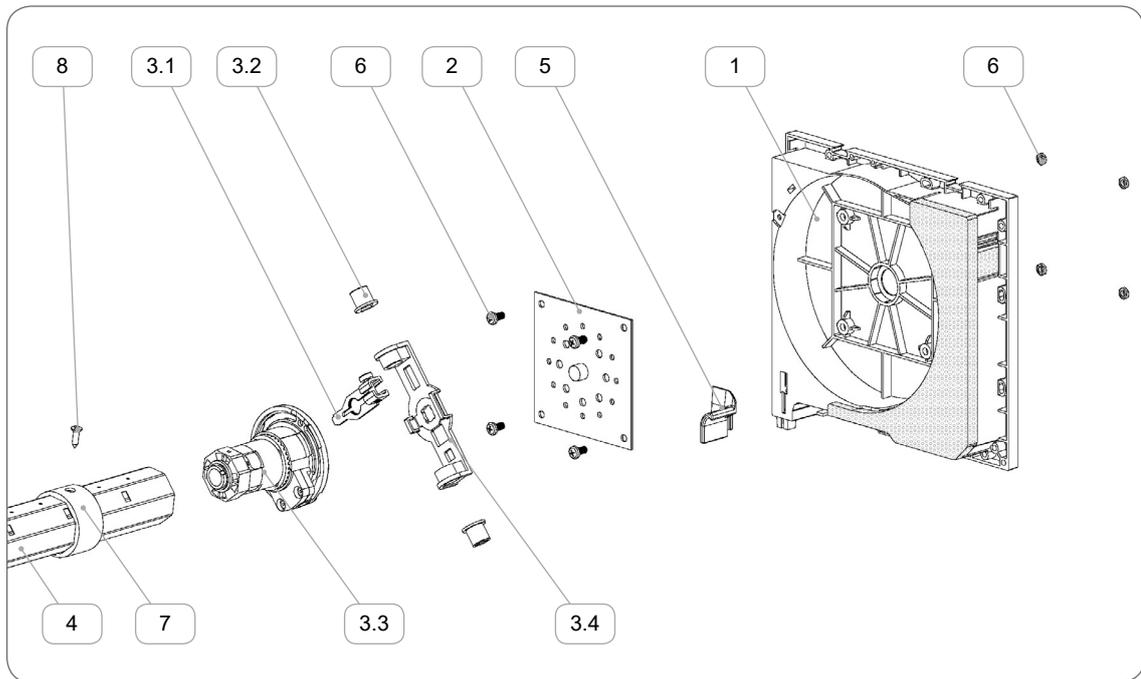


! If PSBO profile is used output is possible only from the bottom with revision at the front of the box.
 Output of the cardan joint if the **PSPD** base extended profile is used possible only from the front of the box.



Depending on the crank output remove the relevant part of the side cover insulation:
- for the crank exit in base revision profile - B molding
- for the crank exit in side profile - A molding



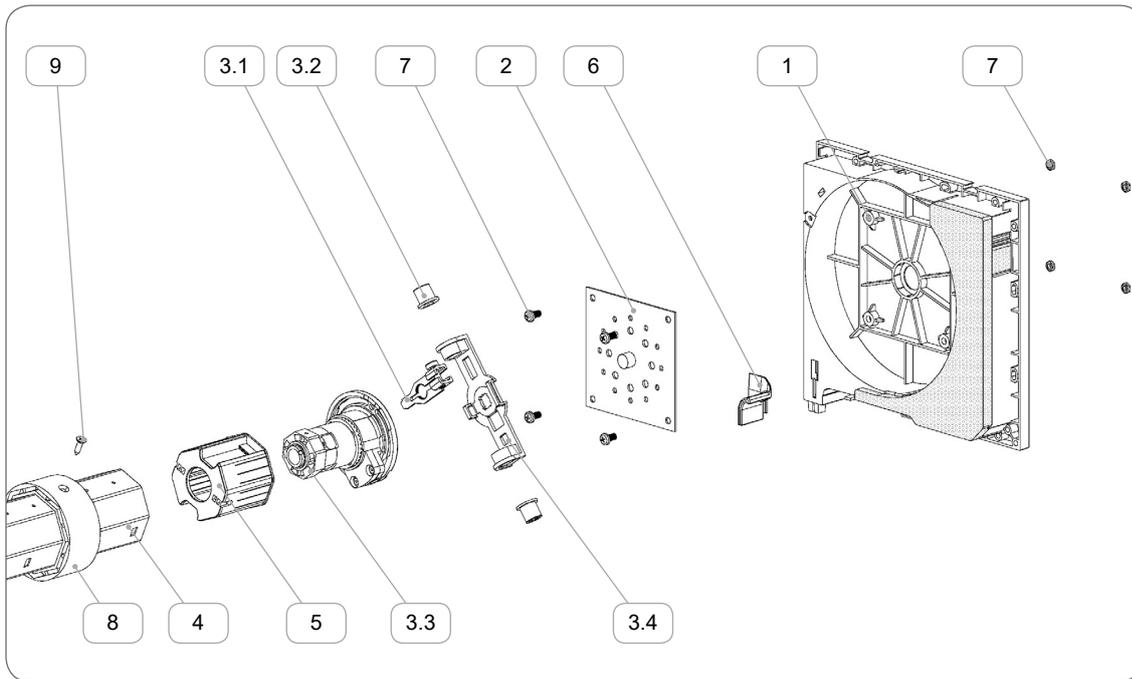
9.3. Gear mechanism MK (Geiger)
9.3.1. List of components - if used reel SW40


	Name of the component	Length	Quantity	Catalogue code		
				SKT230/170	SKT230/210	SKT255/240
1.	End cap		1 [pair]	PB/230/170, PBM/230/170, PBM/W/230/170	PB/230/210, PBM/230/210, PBM/W/230/210	PB/255/240, PBM/255/240, PBM/W/255/240
2.	Adaptor for motor		1 [pcs.]	WSU		
3.	Gear mechanism		1 [pcs.]	MK/L-G/2, MK/R-G/2		
	max. Torque ≤ 7 Nm			MK/L-G/3, MK/R-G/3		
	max. Torque ≤ 9 Nm					
	3.1. Clamp washer					
	3.2. Positioning sleeve					
	3.3. Gear mechanism					
	3.4. Protective mask					
4.	Octagonal galvanized steel reel Ø40	A-110 [mm]	1 [pcs.]	SW4005, SW4006		
5.	Entry guide		1 [pair]	SLMI, SLMA, SLMI/A, SLMA/A		
6.	Fasteners M5 x 10 mm		4 [set]	ELZM5		

Optional elements

	Name of the component	Quantity	Catalogue code
7.	Adapting ring for reel	$\lceil \frac{[(\text{LENGTH}_{\text{SW}} - 1000) / 500] + 3}{1} \rceil \geq 3$ [pcs.]	PZ/45
8.	Galvanized cone screw 3.9 x 16 mm	QUANTITY _{ADAPTING RING} [pcs.]	WKR/Zn/S/3,9x16

9.3.2. List of components - if used reel SW60

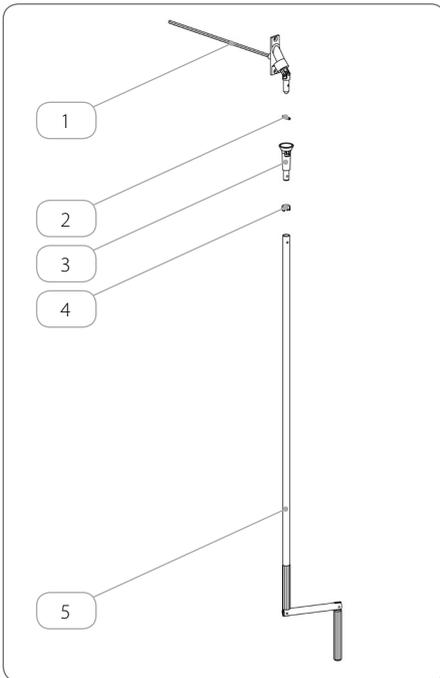


	Name of the component	Length	Quantity	Catalogue code		
				SKT230/170	SKT230/170	SKT230/170
1.	End cap		1 [pair]	PB/230/170, PBM/230/170, PBM/W/230/170	PB/230/210, PBM/230/210, PBM/W/230/210	PB/255/240, PBM/255/240, PBM/W/255/240
2.	Adaptor for motor		1 [pcs.]	WSU		
3.	Gear mechanism		1 [pcs.]	MK/L-G/2, MK/R-G/2		
	max. Torque ≤ 7 Nm			MK/L-G/3, MK/R-G/3		
	max. Torque ≤ 9 Nm					
	3.1. Clamp washer					
	3.2. Positioning sleeve					
	3.3. Gear mechanism					
	3.4. Protective mask					
4.	Octagonal galvanized steel reel Ø60	A-110 [mm]	1 [pcs.]	SW6006, SW6010		
5.	Adaptor increasing the diameter		1 [pcs.]	AZ-G/60		
6.	Entry guide		1 [pair]	SLMI, SLMA, SLMI/A, SLMA/A		
7.	Fasteners M5 x 10 mm		4 [set]	ELZM5		

Optional elements

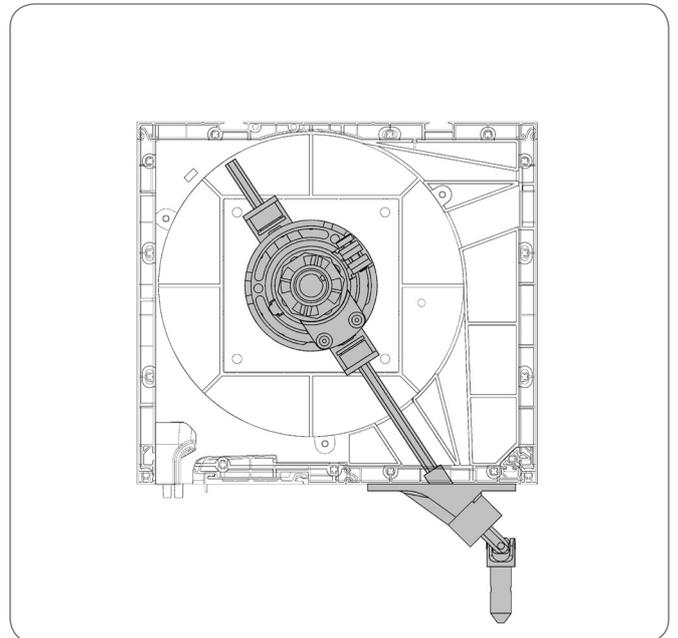
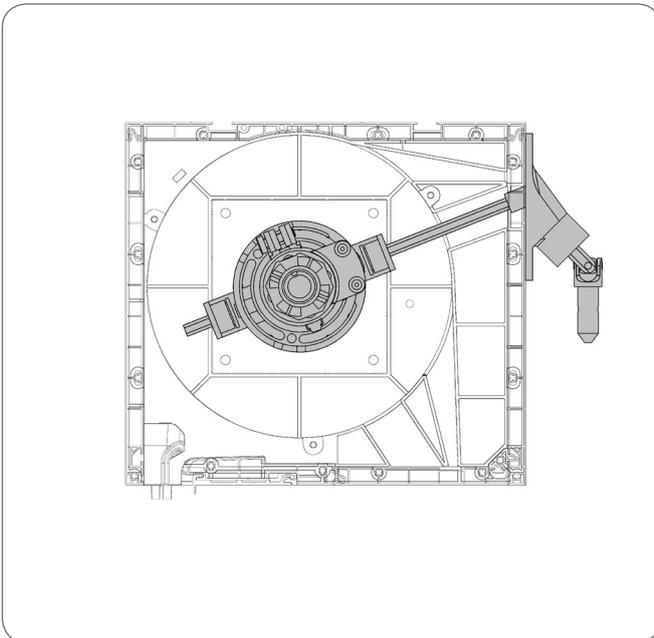
	Name of the component	Quantity	Catalogue code
8.	Adapting ring for reel	$\lceil \frac{(\text{LENGTH}_{\text{SW}} - 1000)}{500} + 3 \rceil \geq 3$ [pcs.]	PZ/68
9.	Galvanized cone screw 3.9 x 16 mm	QUANTITY _{ADAPTING RING} [pcs.]	WKR/Zn/S/3,9x16

9.3.3. Drive operation



	Name of the component	Quantity	Catalogue code
1.	Cardan joint	1 [pcs.]	PC-G45, PC-G90
2.	Joint	1 [pcs.]	ZAW-G
3.	Hook for cardan joint	1 [pcs.]	ZDZ-G
4.	Safety ring with pin	1 [pcs.]	PZZ-G
5.	Handle 1500 mm	1 [pcs.]	KR-G/1200

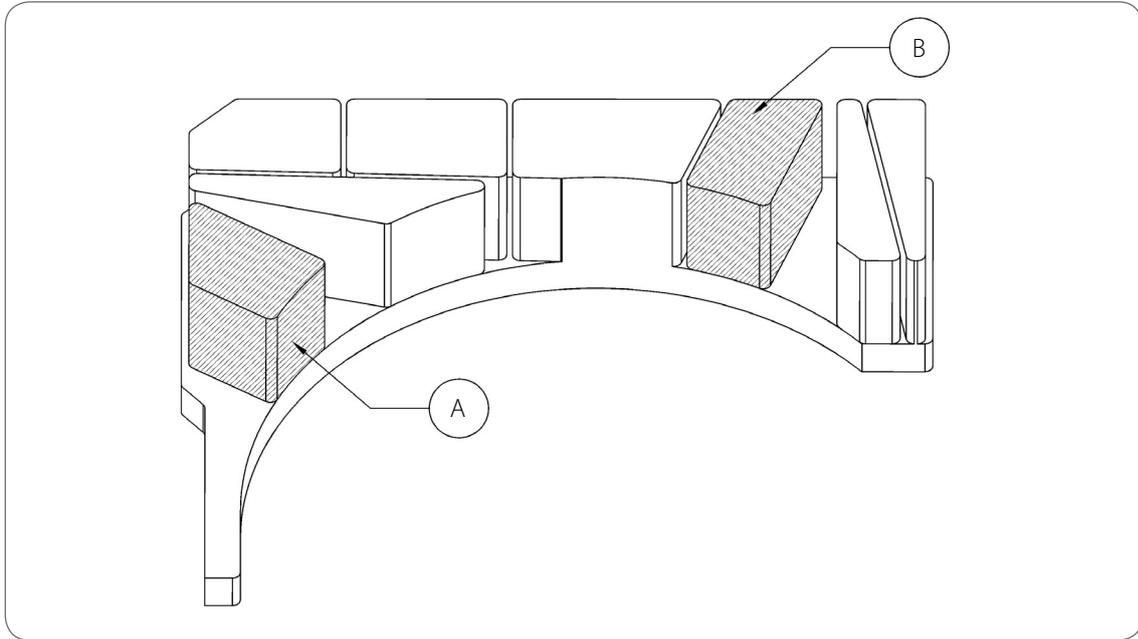
9.3.4. Possible crank outlet



- ⚠ If PSBO profile is used output is possible only from the bottom with revision at the front of the box.
 Output of the cardan joint if the **PSPD** base extended profile is used possible only from the front of the box.

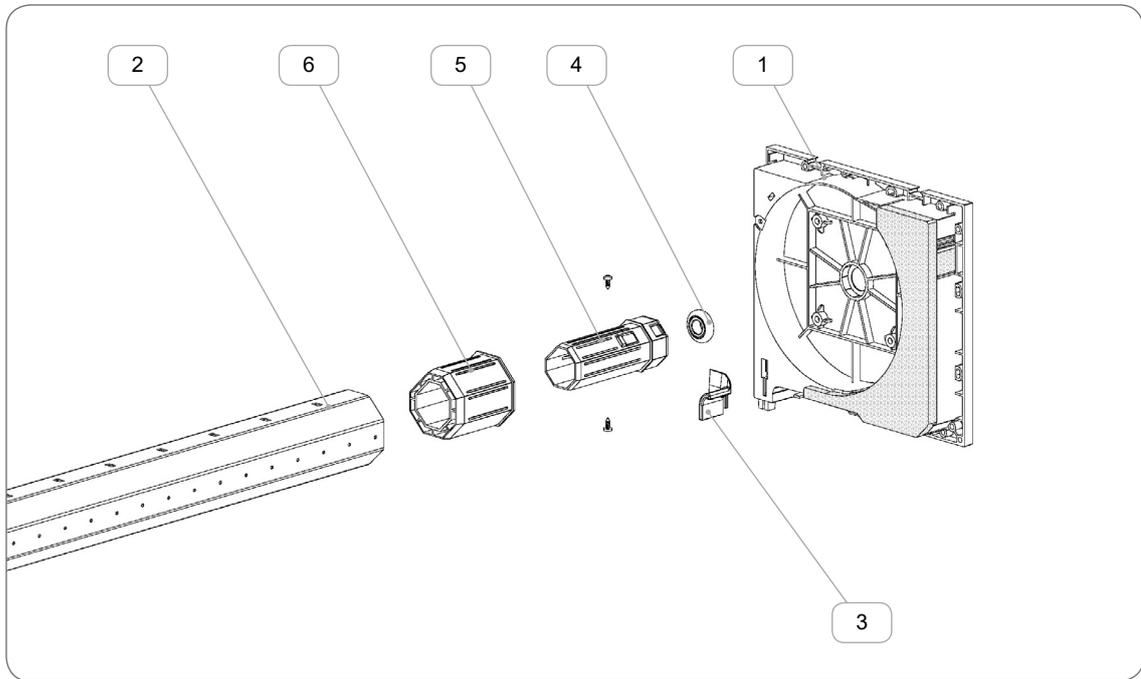


Depending on the crank output remove the relevant part of the side cover insulation:
- for the crank exit in base revision profile - B molding
- for the crank exit in side profile - A molding



9.4. Cutting list and amount of insulation for end cap with no drive.

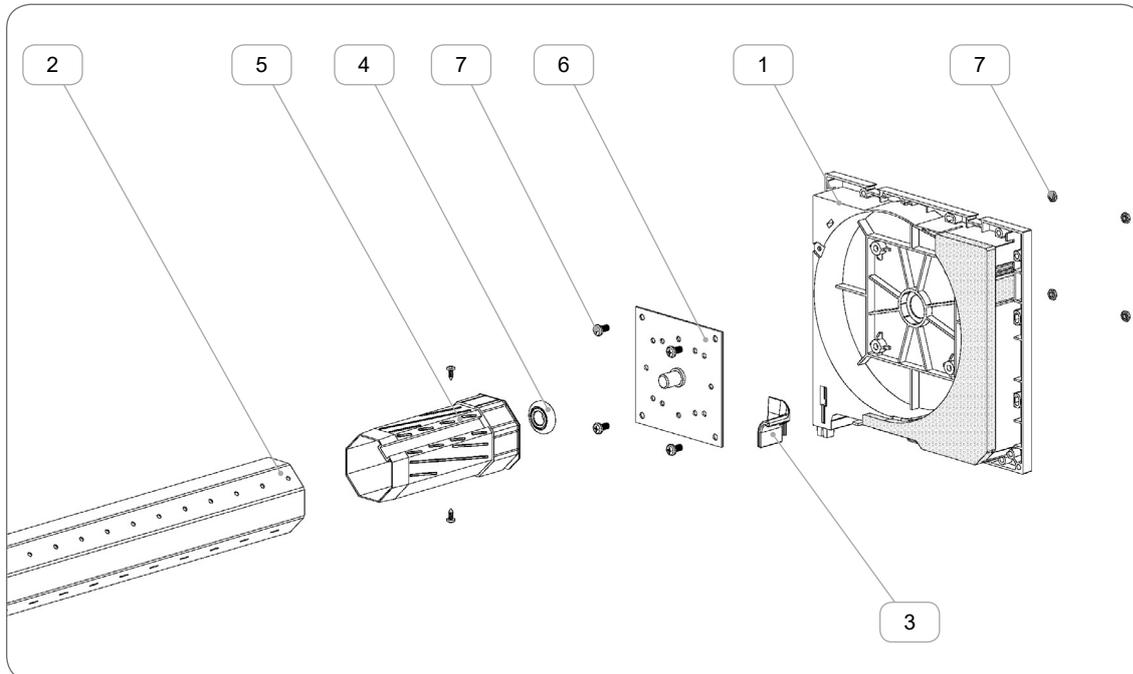
 The cap should be secured to the reel using two non-tapered screws at the opposite sides.



	Name of the component	Quantity	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	End cap	1 [pair]	PB/230/170, PBM/230/210, PBM/W/255/240	PB/230/210, PBM/230/210, PBM/W/230/210	PB/255/240, PBM/255/240, PBM/W/255/240
2.	Octagonal galvanized steel reel	1 [pcs.]			
	Ø40		SW4005, SW4006		
	Ø50		SW5006		
	Ø60		SW6006, SW6010		
3.	Entry guide	1 [pair]	SLMI, SLMA, SLMI/A, SLMA/A		
4.	Ball bearing Ø28 mm	1 [pcs.]	LO28		
5.	Cap	4 [set]			
	SW40		OBSC40KN		
	SW50		OBS500S		
	SW60		OBSC40KN		
6.	Reduction	1 [pcs.]			
	SW60		RED40/60		

Variant with PAC PLATE

 The cap should be secured to the reel using two non-tapered screws at the opposite sides.

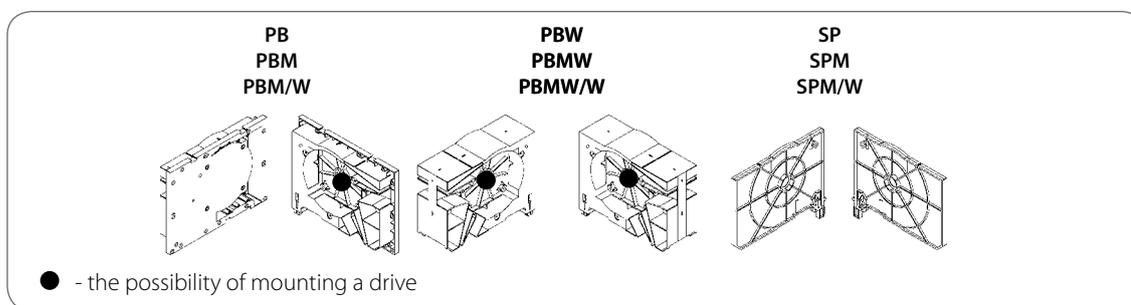


	Name of the component	Quantity	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	End cap	1 [pair]	PB/230/170	PB/230/210	PB/255/240
2.	Octagonal galvanized steel reel	1 [pcs.]	SW6006, SW6010		
3.	Entry guide	1 [pair]	SLMI, SLMA		
4.	Ball bearing Ø28 mm	1 [pcs.]	LO28		
5.	Cap Ø60	1 [pcs.]	OBS60		
6.	Plate for gear mechanism ACEC	1 [pcs.]	PAC		
7.	Fasteners M x 10 mm	4 [pcs.]	ELZM5		

10. TYPES OF ELECTRIC DRIVES

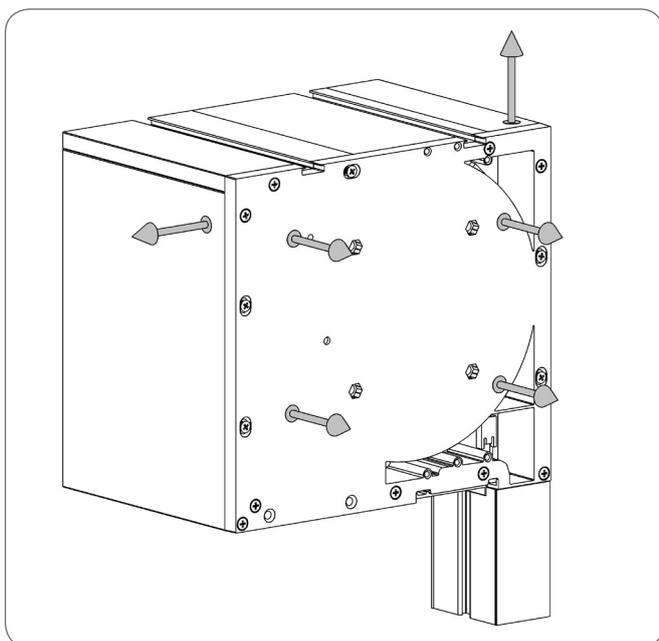
- !** 1. Leave at least 15 cm-long actuator lead in the roller shutter box. **In the event** of the drive failure, cut the lead so that approx. 7 cm-long lead remains at the actuator head.
2. For configurations other than those specified below, the reel length should be determined individually.
3. electric actuator should be selected taking into account the following:
- reel diameter (and diameter of enlarging rings - if installed),
 - actuator power (appropriate torque) – selection based on the actuator selection program,
 - possibility of rising – lowering in the event of a power failure – ANR,
 - selection of control system for roller shutter or roller shutter system according to customer's requirements.
4. Reel electric actuators are designed for short-time operation (**max. 4 minutes**); built-in thermal protection prevents overheating of reel drive. At start-up (if roller shutter curtain is long or operation time is long), the thermal protection may be triggered and actuator switched off.
- After a short cooling time, the drive is ready for further operation. The drive can achieve its full ON time when the drive cools down to ambient temperature. Repeated activation of the thermal protection should be avoided.

- !** Types of drives arrangement depending on the end cap or the division wall:

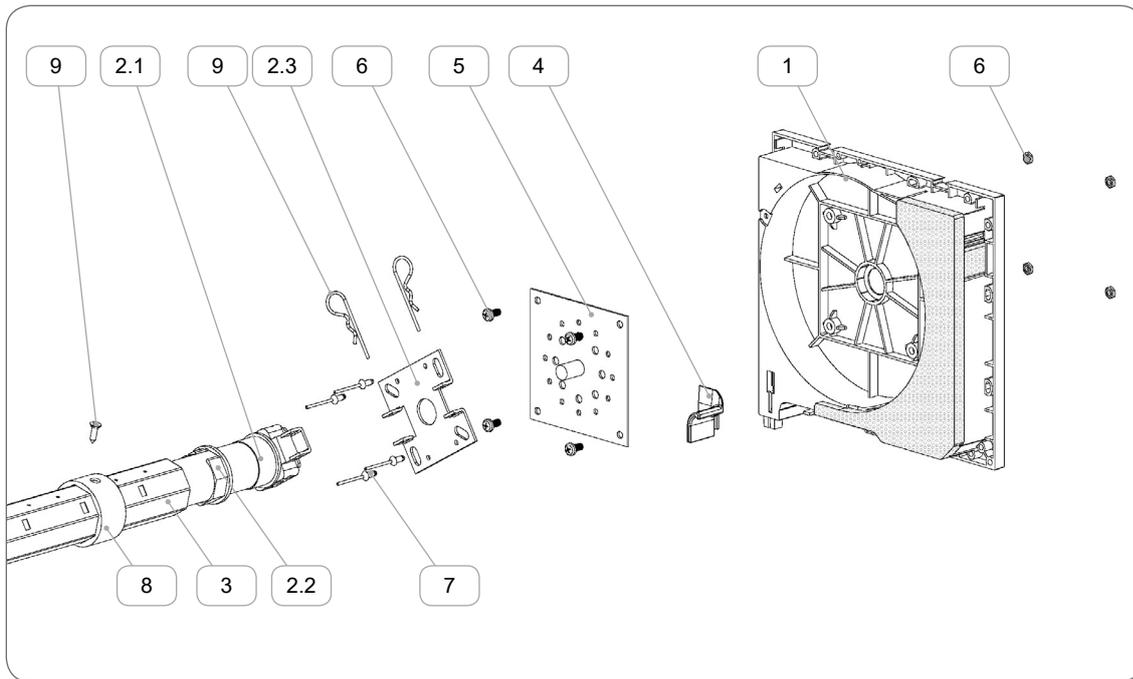


10.1. Possible lead outlet

- !** In order to secure passage of wires through the box use gland **DL/23** in case of 2 and 3-wire cables, gland **DL/45** in case of 4 and 5-wire cables.



10.2. Actuator YYGL35 with reel SW40

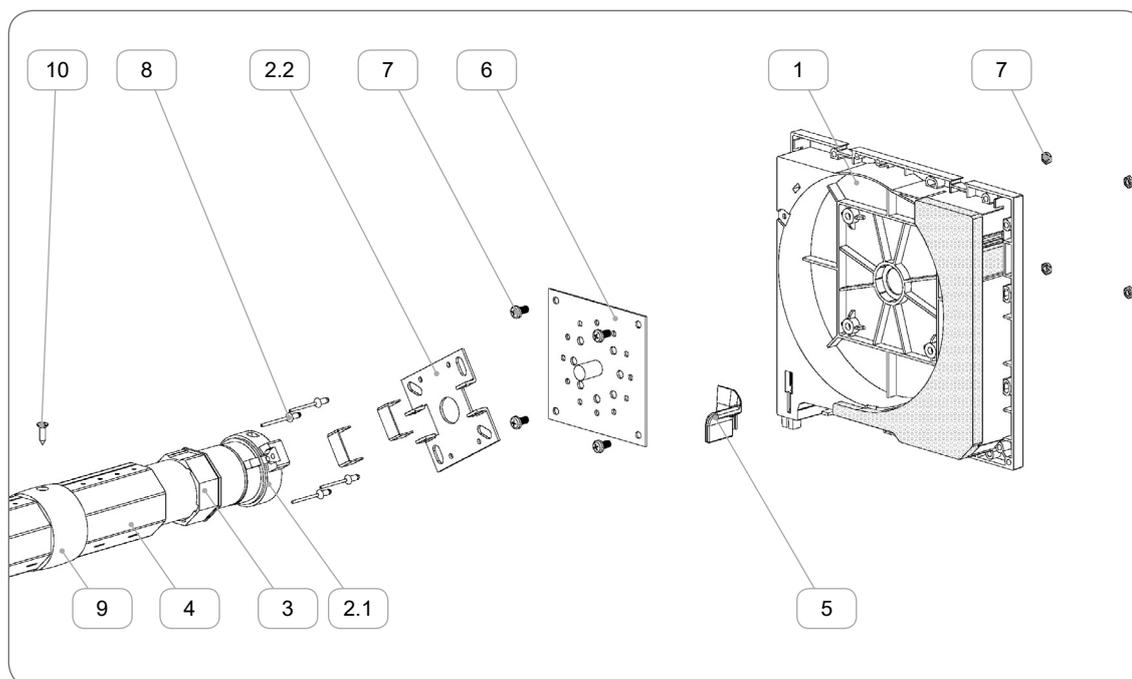


	Name of the component	Length	Quantity	Catalogue code		
				SKT230/170	SKT230/210	SKT255/240
1.	End cap		1 [pair]	PB/230/170, PBM/230/170, PBM/W/230/170	PB/230/210, PBM/230/210, PBM/W/230/210	PB/255/240, PBM/255/240, PBM/W/255/240
2.	Drive		1 [set]	YYGL35S		
	2.1. Motor					
	2.2. Adaptor and coupling					
	2.3. Motor bracket					
⚠ The coupling should be secured to the reel using a screw.						
3.	Octagonal galvanized steel reel Ø40	A-100 [mm]	1 [pcs.]	SW4005, SW4006		
4.	Entry guide		1 [pair]	SLMI, SLMA		
5.	Adaptor for motor		1 [pcs.]	WSU		
6.	Fasteners M5 x 10 mm		4 [set]	ELZM5		
7.	Aluminium rivets 4 x 8 mm		4 [pcs.]	PN4x8		

Optional elements

	Name of the component	Quantity	Catalogue code
8.	Adapting ring for reel	$\lceil \frac{L_{sw}-1000}{500} + 3 \rceil \geq 3$ [pcs.]	PZ/45
9.	Galvanized cone screw 3,9 x 16 mm	QUANTITY _{PZ} [pcs.]	WKR/Zn/S/3,9x16

10.3. Actuator YYGL45 with reel SW50 and SW60

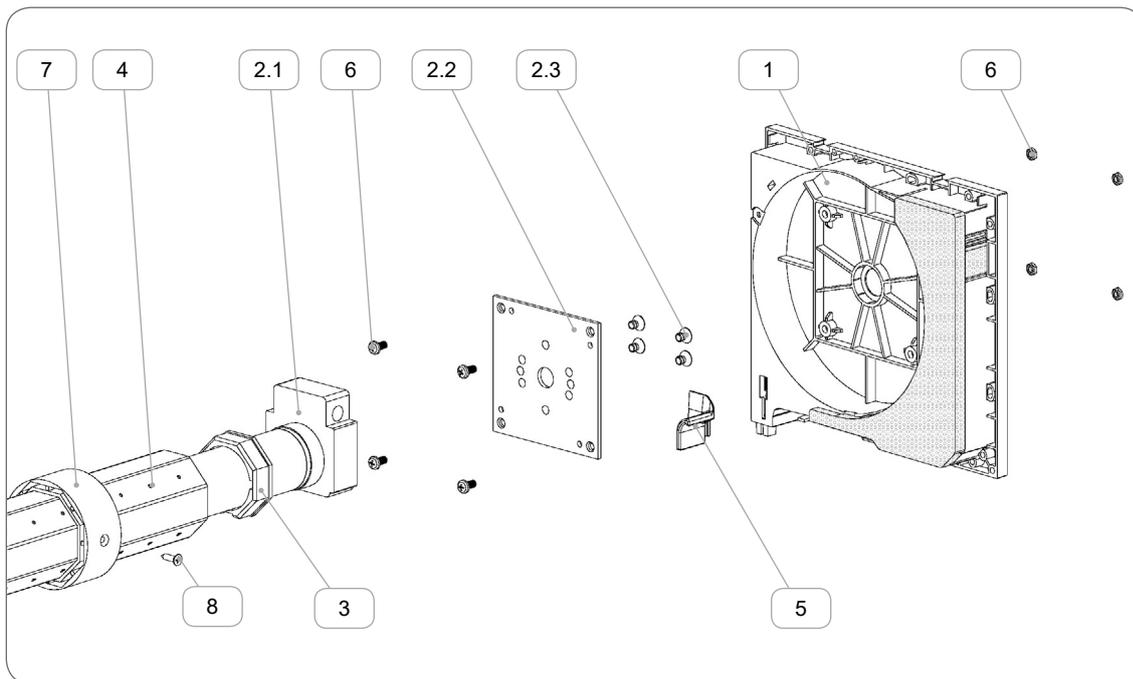


	Name of the component	Length	Quantity	Catalogue code		
				SKT230/170	SKT230/210	SKT255/240
1.	End cap		1 [pair]	PB/230/170, PBM/230/210, PBM/W/255/240	PB/230/210, PBM/230/210, PBM/W/230/210	PB/255/240, PBM/255/240, PBM/W/255/240
2.	Drive		1 [set]	YYGL45S		
	2.1. Motor					
	2.2. Motor bracket					
3.	Adaptor and coupling		1 [set]			
	SW50			ARDDM45S50		
	SW60			ARDYYGLS60		
⚠ The coupling should be secured to the reel using a screw.						
4.	Octagonal galvanized steel reel	A-100 [mm]	1 [pcs.]			
	Ø50			SW5006		
	Ø60			SW6006, SW6010		
5.	Entry guide		1 [pair]	SLMI, SLMA		
6.	Adaptor for motor		1 [pcs.]	WSU		
7.	Fasteners M5 x 10 mm		4 [set]	ELZM5		
8.	Aluminium rivets 4 x 8 mm		4 [pcs.]	PN4x8		

Optional elements

	Name of the component	Quantity	Catalogue code
9.	Adapting ring for reel	$\lceil \frac{L_{sw}-1000}{500} + 3 \rceil \geq 3$ [pcs.]	
	SW50		PZ/56
	SW60		PZ/68
10.	Galvanized cone screw 3.9 x 16 mm	QUANTITY _{PZ} [pcs.]	WKR/Zn/S/3,9x16

10.4. Actuator YYGL45M with reel SW50 and SW60 with emergency manual drive

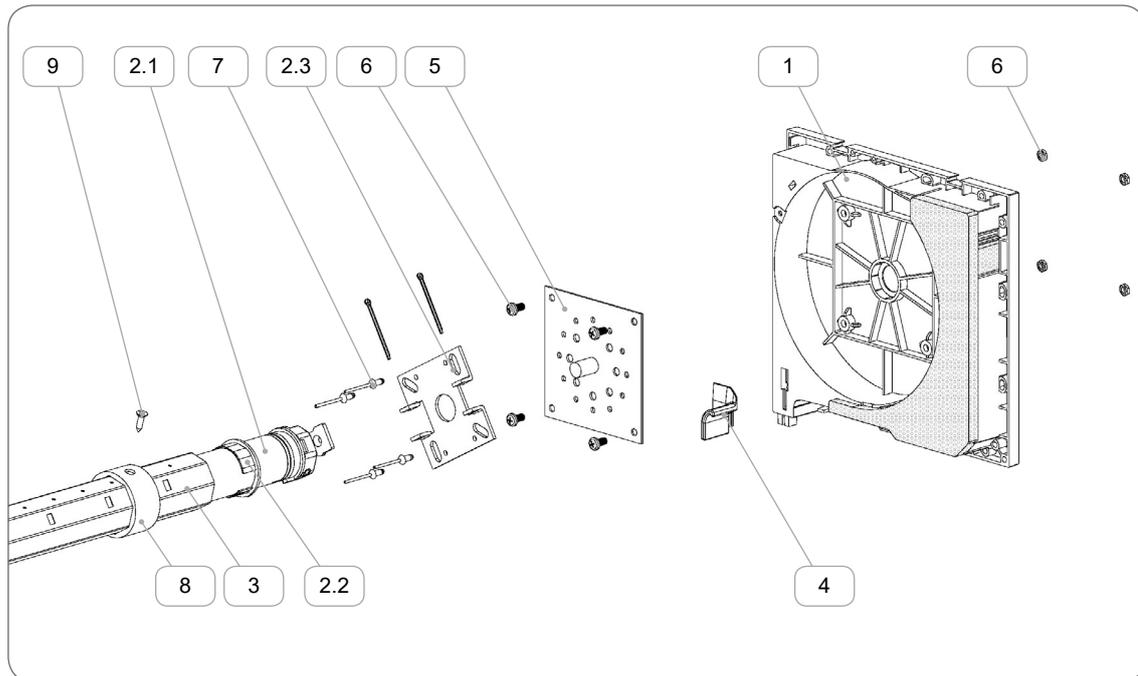


	Name of the component	Length	Quantity	Catalogue code		
				SKT230/170	SKT230/210	SKT255/240
1.	End cap		1 [pair]	PB/230/170, PBM/230/210, PBM/W/255/240	PB/230/210, PBM/230/210, PBM/W/230/210	PB/255/240, PBM/255/240, PBM/W/255/240
2.	Drive		1 [set]	YYGL45M		
	2.1. Motor					
	2.2. Motor bracket					
	2.3. Mounting screws for motor					
3.	Adaptor and coupling		1 [set]			
	SW50			ARDDM45S50		
	SW60			ARDYYGLS60		
⚠ The coupling should be secured to the reel using a screw.						
4.	Octagonal galvanized steel reel	A-100 [mm]	1 [pcs.]			
	Ø50			SW5006		
	Ø60			SW6006, SW6010		
5.	Entry guide		1 [pair]	SLMI, SLMA		
6.	Fasteners M5 x 10 mm		4 [set]	ELZM5		

Optional elements

	Name of the component	Quantity	Catalogue code
7.	Adapting ring for reel	$\lceil \frac{L_{sw}-1000}{500} + 3 \rceil \geq 3$ [pcs.]	
	SW50		PZ/56
	SW60		PZ/68
8.	Galvanized cone screw 3.9 x 16 mm	QUANTITY _{PZ} [pcs.]	WKR/Zn/S/3,9x16

10.5. Actuator DM35 with reel SW40

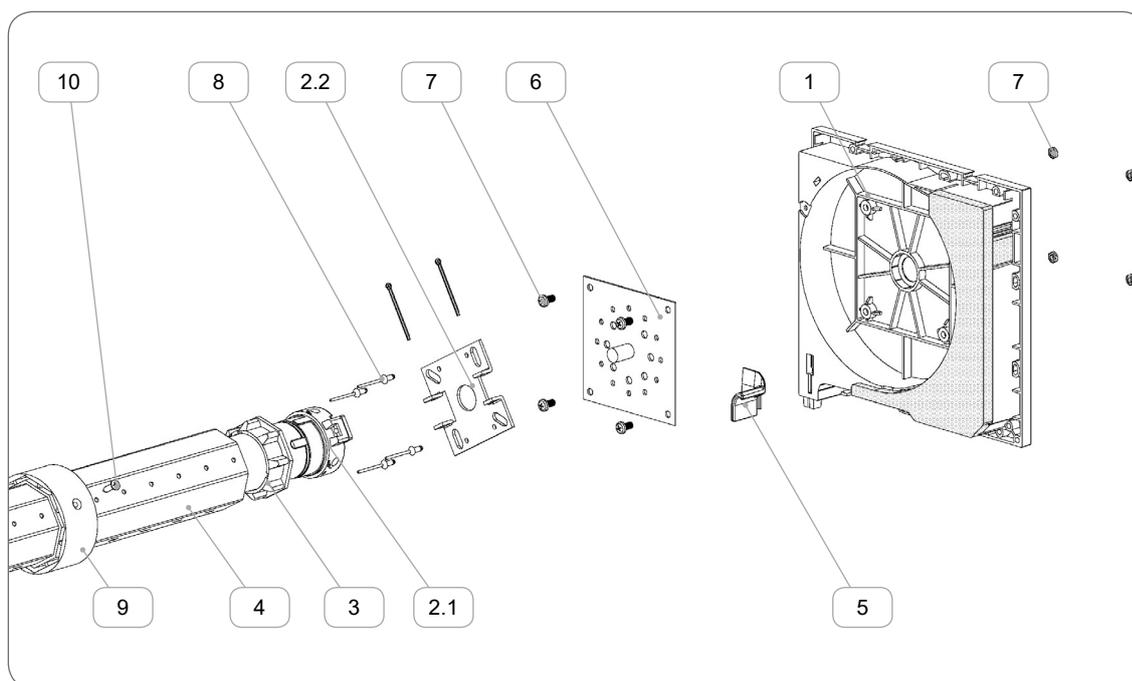


	Name of the component	Length	Quantity	Catalogue code		
				SKT230/170	SKT230/210	SKT255/240
1.	End cap		1 [pair]	PB/230/170, PBM/230/210, PBM/W/255/240	PB/230/210, PBM/230/210, PBM/W/230/210	PB/255/240, PBM/255/240, PBM/W/255/240
2.	Drive		1 [set]	DM35S, DM35SD, DM35R, DM35BD, DM35EV/Y		
	2.1. Motor					
	2.2. Adaptor and coupling					
	2.3. Motor bracket					
⚠ Fix the coupling to the round reel using screws (except for motors DM35BD, DM35EV/Y, where screwing the coupling with the reel is forbidden).						
3.	Octagonal galvanized steel reel Ø40	A-96 [mm]	1 [pcs.]	SW4005, SW4006		
4.	Entry guide		1 [pair]	SLMI, SLMA		
5.	Adaptor for motor		1 [pcs.]	WSU		
6.	Fasteners M5 x 10 mm		4 [set]	ELZM5		
7.	Aluminium rivets 4 x 8 mm		4 [pcs.]	PN4x8		

Optional elements

	Name of the component	Quantity	Catalogue code
8.	Adapting ring for reel	$\lceil [(L_{sw} - 1000) / 500] + 3 \rceil \geq 3$ [pcs.]	PZ/45
9.	Galvanized cone screw 3.9 x 16 mm	QUANTITY _{PZ} [pcs.]	WKR/Zn/S/3,9x16

10.6. Actuator DM45 with reel SW50 and SW60

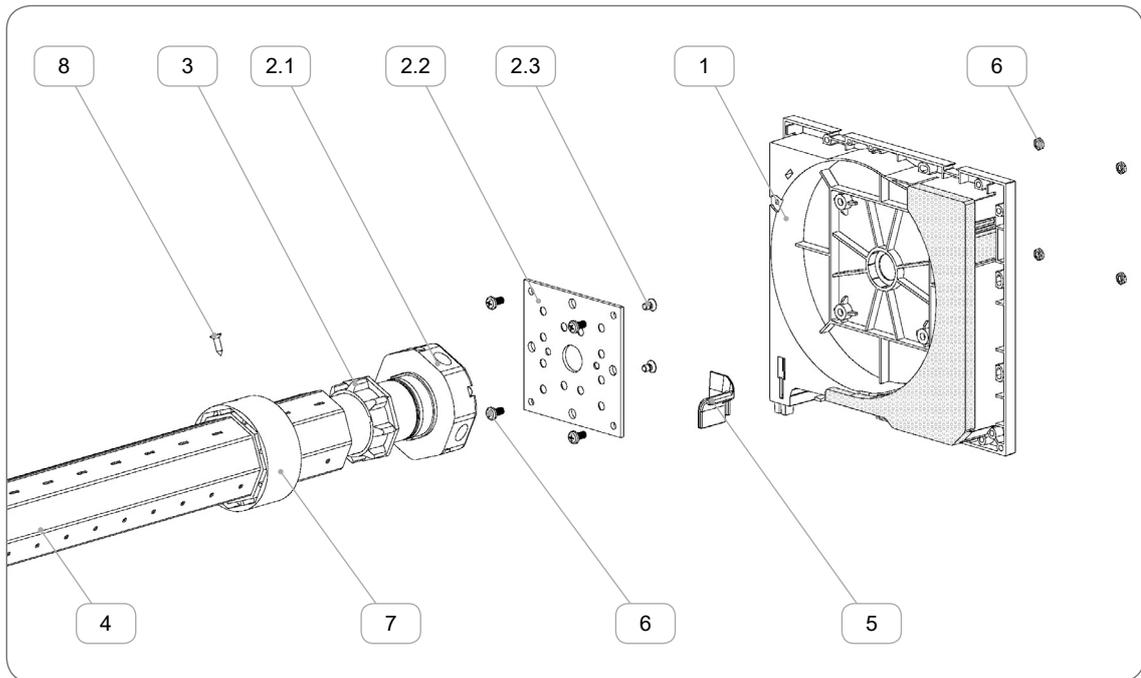


	Name of the component	Length	Quantity	Catalogue code		
				SKT230/170	SKT230/210	SKT255/240
1.	End cap		1 [pair]	PB/230/170, PBM/230/210, PBM/W/255/240	PB/230/210, PBM/230/210, PBM/W/230/210	PB/255/240, PBM/255/240, PBM/W/255/240
2.	Drive		1 [set]	DM45S, DM45EV/Y, DM45R, DM45BD, DM45SD		
	2.1. Motor					
	2.2. Motor bracket					
3.	Adaptor and coupling		1 [set]			
	SW50 and Motor DM45S, DM45SD, DM45R					ARDDM45S50
	SW50 and Motor DM45BD, DM45EV/Y					ARDDM45S50/P
	SW60 and Motor DM45S, DM45SD, DM45R					ARDDM45S60
	SW60 and Motor DM45BD, DM45EV/Y					ARDDM45S60/P
⚠	The coupling should be secured to the reel using a screw (except for DM45BD and DM45EV/Y overload actuators in which the coupling and the reel must not be screwed together).					
4.	Octagonal galvanized steel reel	A-97 [mm]	1 [pcs.]			
	Ø50					SW5006
	Ø60					SW6006, SW6010
5.	Entry guide		1 [pair]			SLMI, SLMA
6.	Adaptor for motor		1 [pcs.]			WSU
7.	Fasteners M5 x 10 mm		4 [set]			ELZM5
8.	Aluminium rivets 4 x 8 mm		4 [pcs.]			PN4x8

Optional elements

	Name of the component	Quantity	Catalogue code
9.	Adapting ring for reel	$\lceil \frac{(L_{sw}-1000)}{500} + 3 \rceil \geq 3$ [pcs.]	
	SW50		PZ/56
	SW60		PZ/68
10.	Galvanized cone screw 3.9 x 16 mm	QUANTITY _{PZ} [pcs.]	WKR/Zn/S/3,9x16

10.7. Actuator DM45M with reel SW50 and SW60 with emergency manual drive

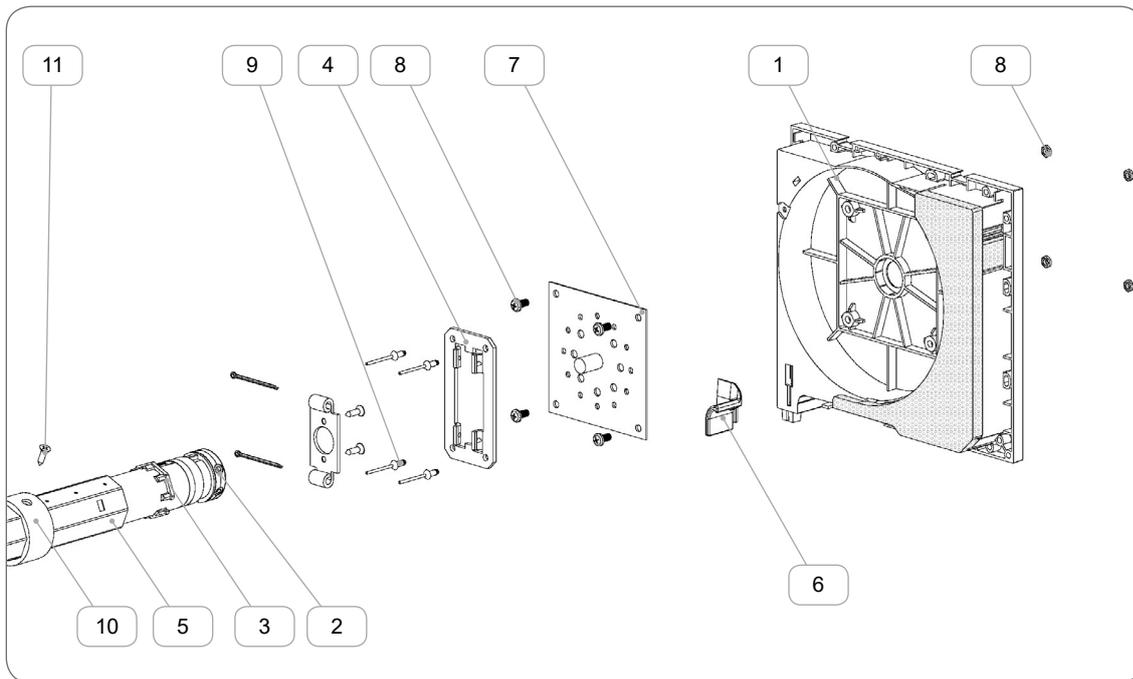


	Name of the component	Length	Quantity	Catalogue code		
				SKT230/170	SKT230/210	SKT255/240
1.	End cap		1 [pair]	PB/230/170, PBM/230/210, PBM/W/255/240	PB/230/210, PBM/230/210, PBM/W/230/210	PB/255/240, PBM/255/240, PBM/W/255/240
2.	Drive		1 [set]	DM45M, DM45RM		
	2.1. Motor					
	2.2. Motor bracket					
	2.3. Mounting screws for motor					
3.	Adaptor and coupling		1 [set]			
	SW50			ARDDM45S50		
	SW60			ARDYYGLS60		
⚠ The coupling should be secured to the reel using a screw.						
4.	Octagonal galvanized steel reel	A-110 [mm]	1 [pcs.]			
	Ø50			SW5006		
	Ø60			SW6006, SW6010		
5.	Entry guide		1 [pair]	SLMI, SLMA		
6.	Fasteners M5 x 10 mm		4 [set]	ELZM5		

Optional elements

	Name of the component	Quantity	Catalogue code
7.	Adapting ring for reel	$\lceil [(L_{sw}-1000)/500]+3 \rceil \geq 3$ [pcs.]	
	SW50		PZ/56
	SW60		PZ/68
8.	Galvanized cone screw 3.9 x 16 mm	QUANTITY _{pz} [pcs.]	WKR/Zn/S/3,9x16

10.8. Actuator NL 40 and OXIMO WIREFREE with reel SW40

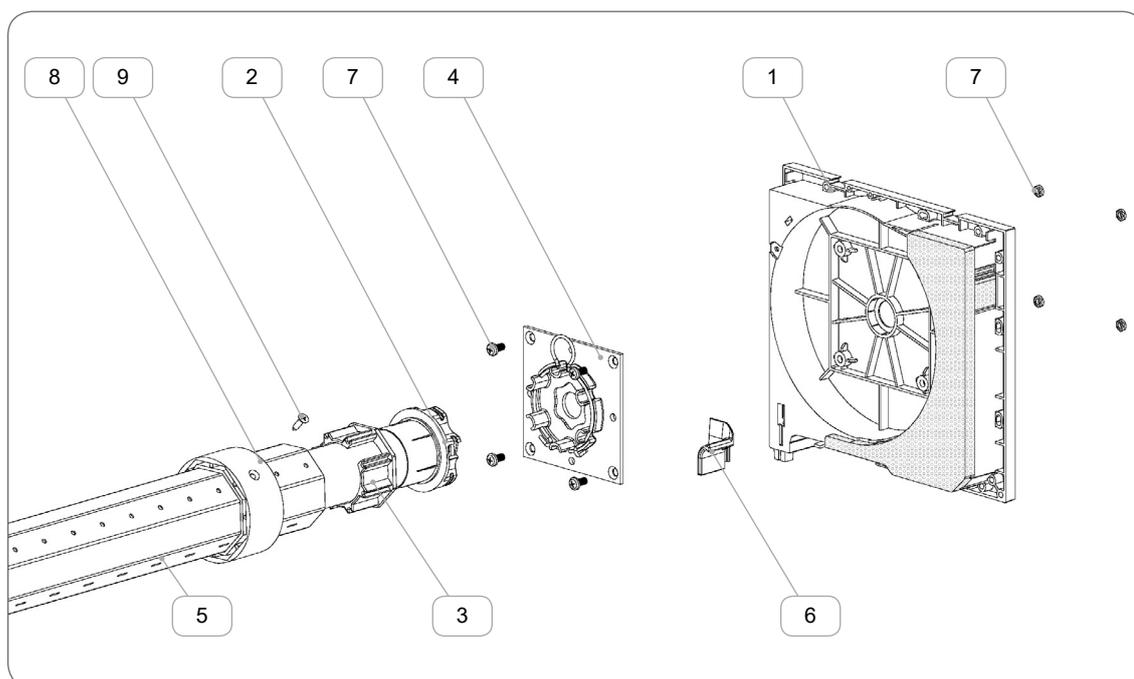


Name of the component	Length	Quantity	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1. End cap		1 [pair]	PB/230/170, PBM/230/210, PBM/W/255/240	PB/230/210, PBM/230/210, PBM/W/230/210	PB/255/240, PBM/255/240, PBM/W/255/240
2. Motor		1 [pcs.]	NL40LS4013/10, NL40ALTUS40RTS13/10, OXIMO40WIREFREERTS		
3. Adaptor and coupling		1 [set]	ARDSS40		
⚠ The coupling should be secured to the reel using a screw.					
4. Motor bracket		1 [pcs.]	WSBS		
5. Octagonal galvanized steel reel Ø40	A-100 [mm]	1 [pcs.]	SW4005, SW4006		
6. Entry guide		1 [pair]	SLMI, SLMA		
7. Adaptor for motor		1 [pcs.]	WSU		
8. Fasteners M5 x 10 mm		4 [set]	ELZM5		
9. Aluminium rivets 4 x 8 mm		4 [pcs.]	PN4x8		

Optional elements

Name of the component	Quantity	Catalogue code
10. Adapting ring for reel	$\lceil \frac{L_{sw}-1000}{500} + 3 \rceil \geq 3$ [pcs.]	PZ/45
11. Galvanized cone screw 3.9 x 16 mm	QUANTITY _{PZ} [pcs.]	WKR/Zn/S/3,9x16

10.9. Actuator OXIMO and ILMO with reel SW60

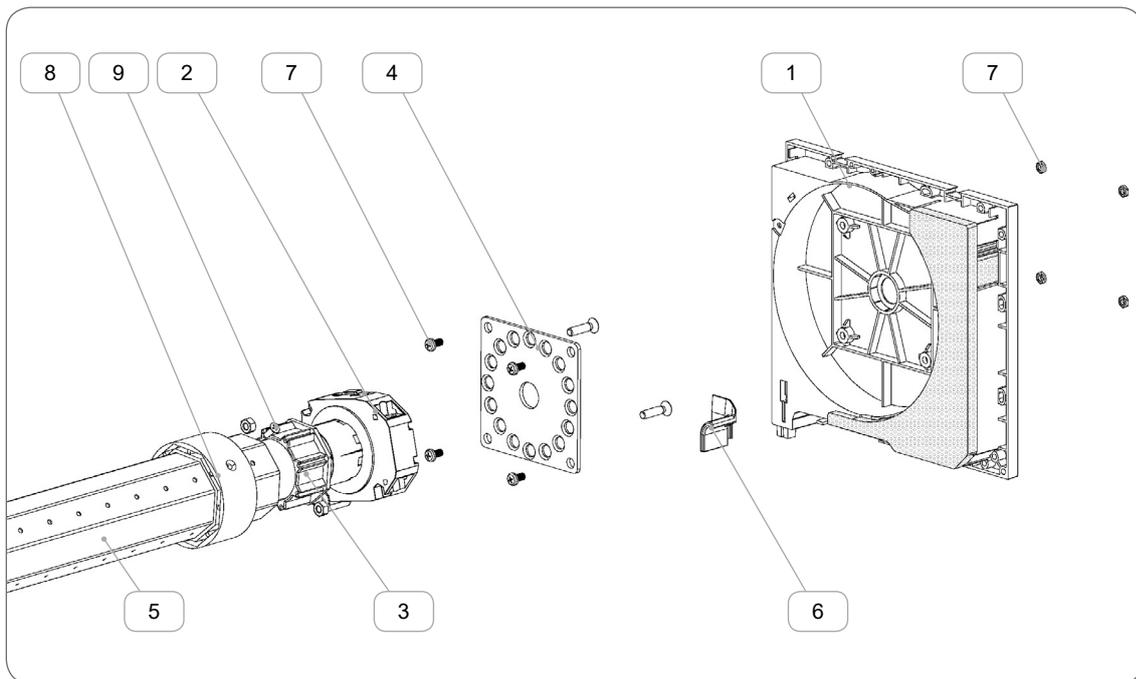


	Name of the component	Length	Quantity	Catalogue code		
				SKT230/170	SKT230/210	SKT255/240
1.	End cap		1 [pair]	PB/230/170, PBM/230/210, PBM/W/255/240	PB/230/210, PBM/230/210, PBM/W/230/210	PB/255/240, PBM/255/240, PBM/W/255/240
2.	Motor		1 [pcs.]	OXIMOM50SRTS, OXIMOM50WT, OXIMOM50RTS, ILMO M50SWT, ILMOM50WT, OXIMOM50SAutoio, OXIMOM50io		
3.	Adaptor and coupling		1 [set]	ARDMS60		
The coupling should be secured to the reel using a screw.						
4.	Motor bracket		1 [pcs.]	WMSKT		
5.	Octagonal galvanized steel reel Ø60	A-100 [mm]	1 [pcs.]	SW6006, SW6010		
6.	Entry guide		1 [pair]	SLMI, SLMA		
7.	Fasteners M5 x 10 mm		4 [set]	ELZM5		

Optional elements

	Name of the component	Quantity	Catalogue code
8.	Adapting ring for reel	$\lceil [(L_{sw} - 1000) / 500] + 3 \rceil \geq 3$ [pcs.]	PZ/68
9.	Galvanized cone screw 3.9 x 16 mm	QUANTITY _{pz} [pcs.]	WKR/Zn/S/3,9x16

10.10. Actuator RDO with reel SW60

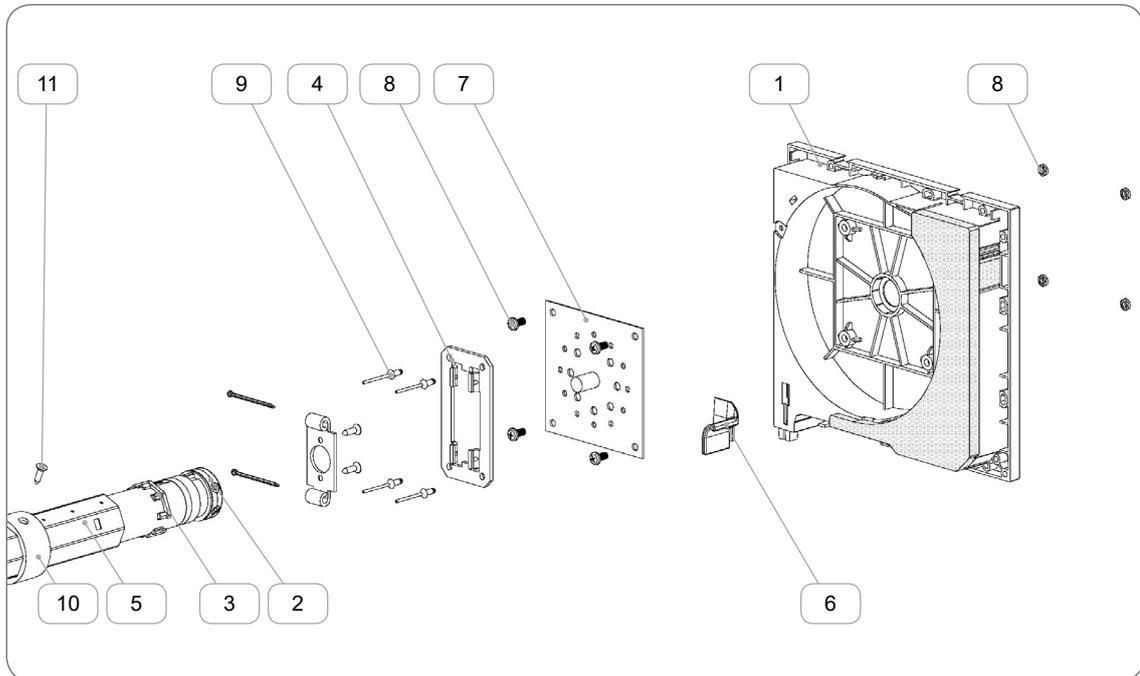


	Name of the component	Length	Quantity	Catalogue code		
				SKT230/170	SKT230/210	SKT255/240
1.	End cap		1 [pair]	PB/230/170, PBM/230/210, PBM/W/255/240	PB/230/210, PBM/230/210, PBM/W/230/210	PB/255/240, PBM/255/240, PBM/W/255/240
2.	Motor		1 [pcs.]	RDOM50CSI		
3.	Adaptor and coupling		1 [set]	ARDMS60		
⚠ The coupling should be secured to the reel using a screw.						
4.	Motor bracket		1 [pcs.]	WLANR		
5.	Octagonal galvanized steel reel Ø60	A-100 [mm]	1 [pcs.]	SW6006, SW6010		
6.	Entry guide		1 [pair]	SLMI, SLMA		
7.	Fasteners M5 x 10 mm		4 [set]	ELZM5		

Optional elements

	Name of the component	Quantity	Catalogue code
8.	Adapting ring for reel	$\lceil [(L_{SW}-1000)/500]+3 \rceil \geq 3$ [pcs.]	PZ/68
9.	Galvanized cone screw 3.9 x 16 mm	QUANTITY _{PZ} [pcs.]	WKR/Zn/S/3,9x16

10.11. Actuator T3.5 with reel SW40

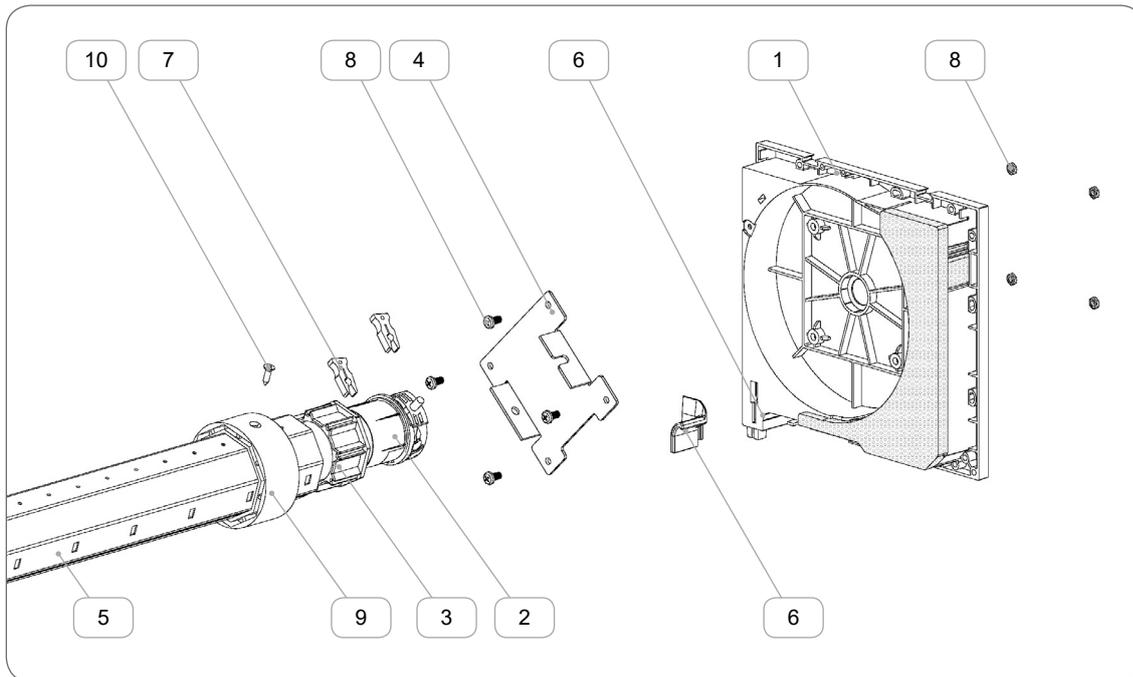


	Name of the component	Length	Quantity	Catalogue code		
				SKT230/170	SKT230/210	SKT255/240
1.	End cap		1 [pair]	PB/230/170, PBM/230/210, PBM/W/255/240	PB/230/210, PBM/230/210, PBM/W/230/210	PB/255/240, PBM/255/240, PBM/W/255/240
2.	Motor		1 [pcs.]	T3.5, T3.5Hz		
3.	Adaptor and coupling		1 [set]	ARDSS40		
⚠ The coupling should be secured to the reel using a screw.						
4.	Motor bracket		1 [pcs.]	WSBS		
5.	Octagonal galvanized steel reel Ø40	A-101 [mm]	1 [pcs.]	SW4005, SW4006		
6.	Entry guide		1 [pair]	SLMI, SLMA		
7.	Adaptor for motor		1 [pcs.]	WSU		
8.	Fasteners M5 x 10 mm		4 [set]	ELZM5		
9.	Aluminium rivets 4 x 8 mm		4 [pcs.]	PN4x8		

Optional elements

	Name of the component	Quantity	Catalogue code
10.	Adapting ring for reel	$\lceil [(L_{sw}-1000)/500]+3 \rceil \geq 3$ [pcs.]	PZ/45
11.	Galvanized cone screw 3.9 x 16 mm	QUANTITY _{pz} [pcs.]	WKR/Zn/S/3,9x16

10.12. Actuator T5 with reel SW60

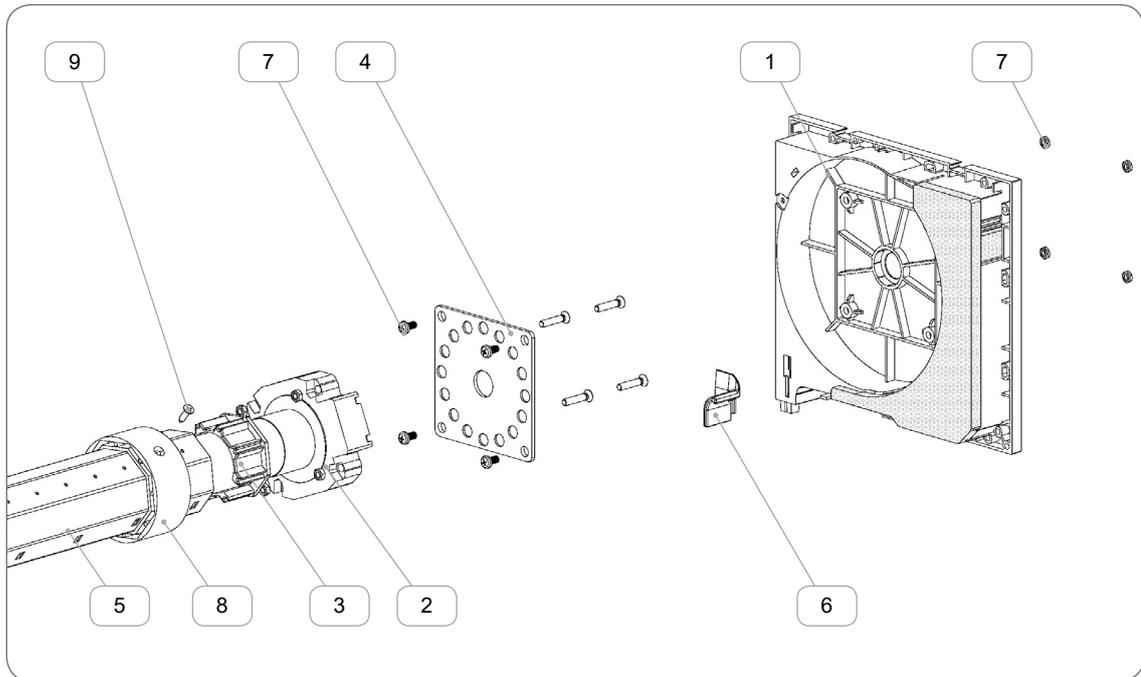


	Name of the component	Length	Quantity	Catalogue code		
				SKT230/170	SKT230/210	SKT255/240
1.	End cap		1 [pair]	PB/230/170, PBM/230/210, PBM/W/255/240	PB/230/210, PBM/230/210, PBM/W/230/210	PB/255/240, PBM/255/240, PBM/W/255/240
2.	Motor		1 [pcs.]	T5, T5JOB, T5AUTO, T5AUTOShort, T5EHZ, T5AUTOShortHz		
	<p>⚠ Rigid brackets and buffers or side locks in the endslat must be used for T5AUTO, T5AUTOShort and T5AUTOShortHz actuators.</p>					
3.	Adaptor and coupling		1 [set]	ARDMS60		
	<p>⚠ The coupling should be secured to the reel using a screw.</p>					
	<p>⚠ If T5JOB actuators are used, the complete set includes adapter and ARD M S60coupling.</p>					
4.	Motor bracket		1 [pcs.]	WT5BS		
5.	Octagonal galvanized steel reel Ø60	A-99 [mm]	1 [pcs.]	SW6006, SW6010		
6.	Entry guide		1 [pair]	SLMI, SLMA		
7.	Safety joint for motor		1 [set]	ZZST5		
8.	Fasteners M5 x 10 mm		4 [set]	ELZM5		

Optional elements

	Name of the component	Quantity	Catalogue code
9.	Adapting ring for reel	$\lceil \frac{(L_{sw} - 1000)}{500} + 3 \rceil \geq 3$ [pcs.]	PZ/68
10.	Galvanized cone screw 3.9 x 16 mm	QUANTITY _{PZ} [pcs.]	WKR/Zn/S/3,9x16

10.13. Actuator DMI5 with reel SW60

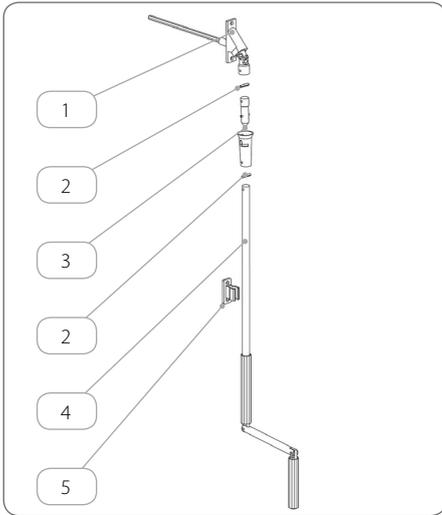


	Name of the component	Length	Quantity	Catalogue code		
				SKT230/170	SKT230/210	SKT255/240
1.	end cap		1 [pair]	PB/230/170, PBM/230/210, PBM/W/255/240	PB/230/210, PBM/230/210, PBM/W/230/210	PB/255/240, PBM/255/240, PBM/W/255/240
2.	Motor		1 [pcs.]	DMI5, DMI5Hz		
3.	Adaptor and coupling		1 [set]	ARDMS60		
⚠ The coupling should be secured to the reel using a screw.						
4.	Motor bracket		1 [pcs.]	WLANR		
5.	Octagonal galvanized steel reel Ø60	A-104 [mm]	1 [pcs.]	SW6006, SW6010		
6.	Entry guide		1 [pair]	SLMI, SLMA		
7.	Fasteners M5 x 10 mm		4 [set]	ELZM5		

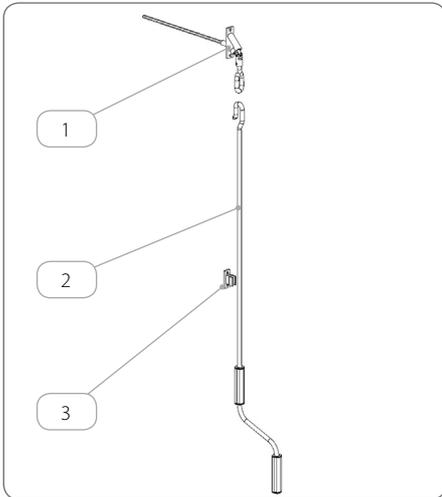
Optional elements

	Name of the component	Quantity	Catalogue code
8.	Adapting ring for reel	$\lceil \frac{L_{SW}-1000}{500} + 3 \rceil \geq 3$ [pcs.]	PZ/68
9.	Galvanized cone screw 3.9 x 16 mm	QUANTITY _{PZ} [pcs.]	WKR/Zn/S/3,9x16

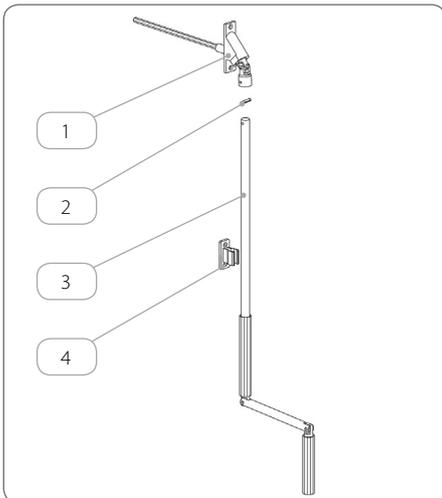
10.14. ANR emergency manual override operation



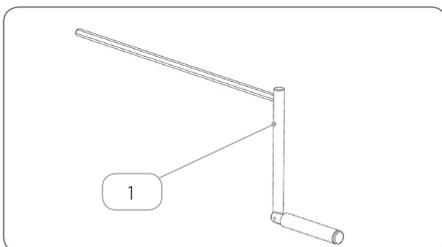
	Name of the component	Quantity	Catalogue code
1.	Cardan joint	1 [pcs.]	PKC45, PKC90
2.	Joint	1 [pcs.]	ZAW
3.	Hook for cardan joint	1 [pcs.]	ZDZ2
4.	Handle 1500 mm	2 [pcs.]	KRC
5.	Handle lock	1 [pair]	UKR



	Name of the component	Quantity	Catalogue code
1.	Cardan joint with eye	1 [pcs.]	PKUC45, PKUC90
2.	Handle with hook	1 [pcs.]	KRH150, KRH180
3.	Handle lock	1 [pair]	UKR

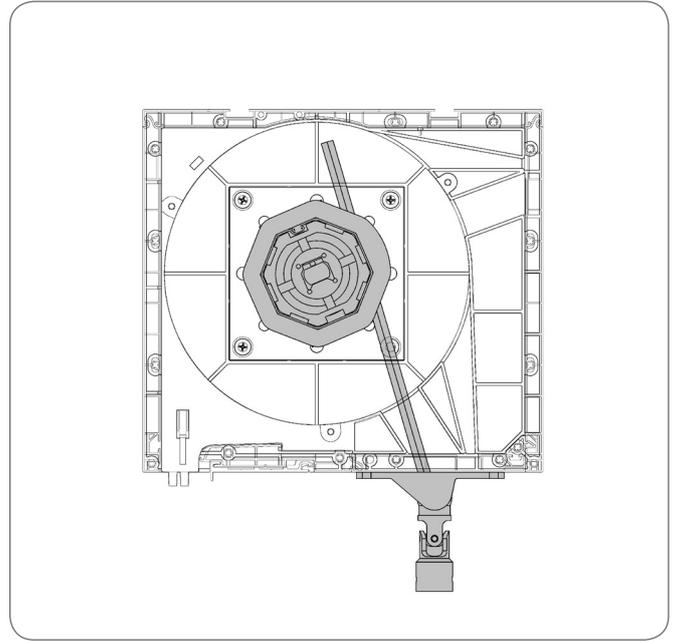
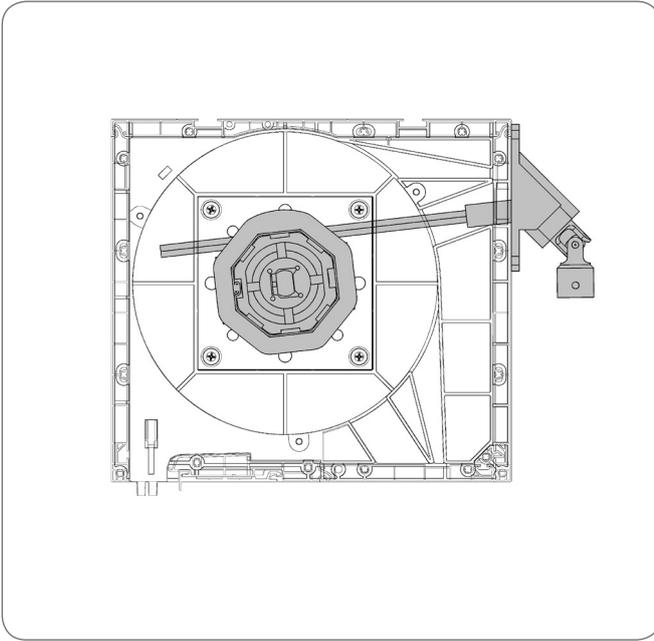


	Name of the component	Quantity	Catalogue code
1.	Cardan joint	1 [pcs.]	PKC45, PKC90
2.	Joint	1 [pcs.]	ZAW
3.	Handle 1500 mm	2 [pcs.]	KRC
4.	Handle lock	1 [pair]	UKR



	Name of the component	Quantity	Catalogue code
1.	Handle	1 [pcs.]	KR

10.15. Possible crank outlet



If PSBO profile is used output is possible only from the bottom with revision at the front of the box.

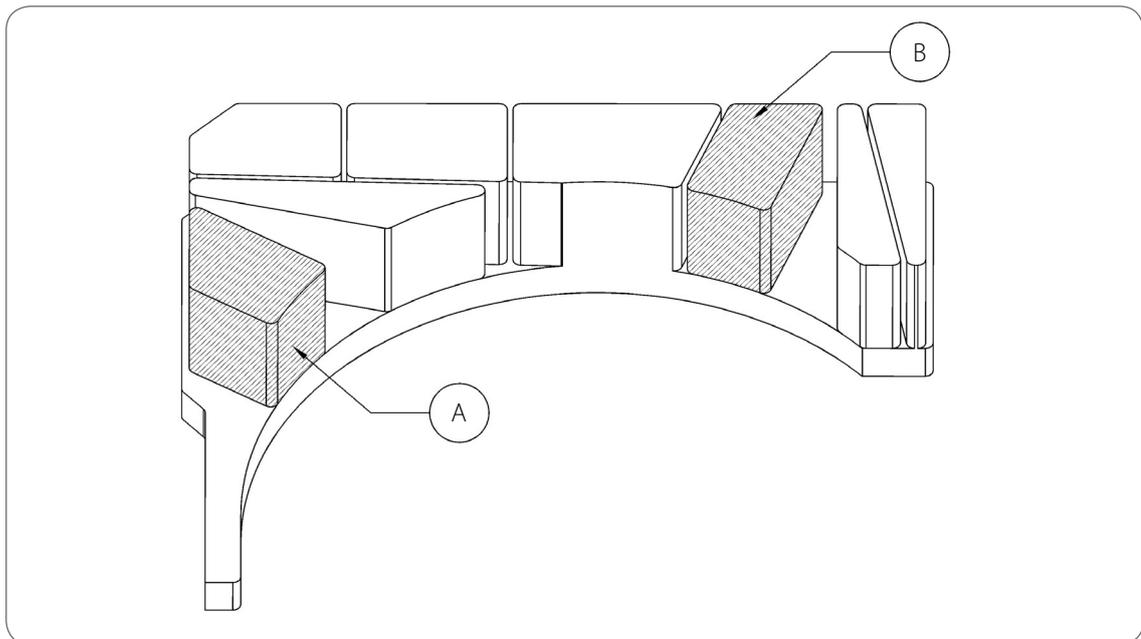


Output of the cardan joint if the **PSPD** base extended profile is used possible only from the front of the box.
For the set of **SW60** reel and **PSRD/MKT/78** profile with bottom revision, motor with ANR can't be use.

Depending on the crank output remove the relevant part of the side cover insulation:

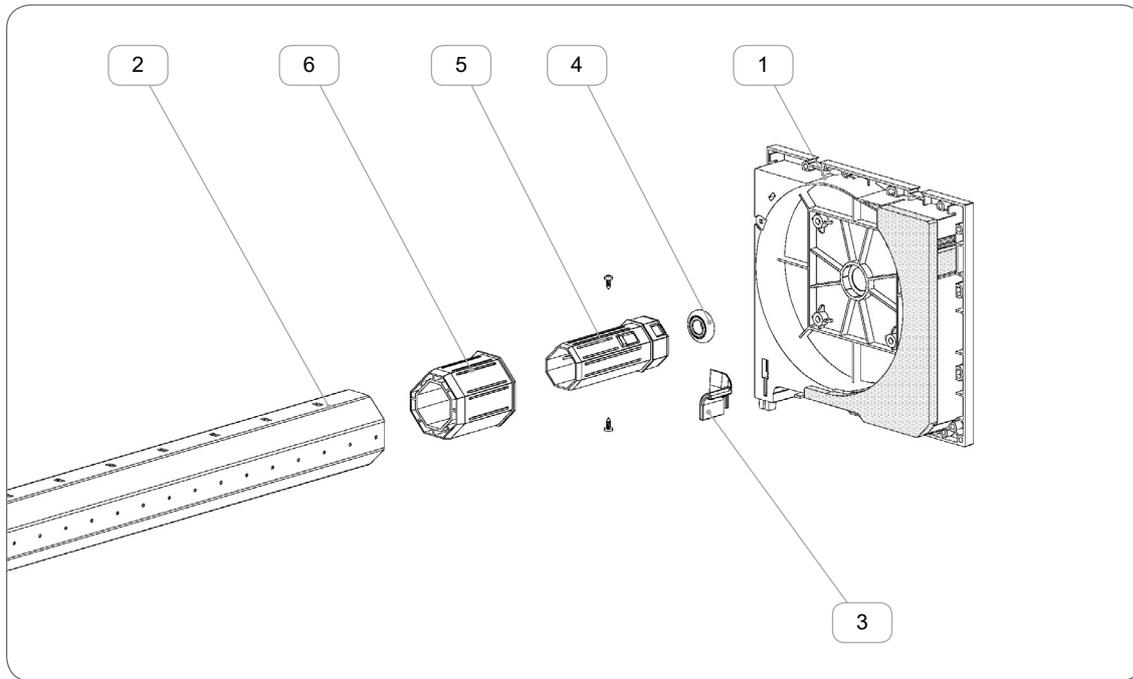


- for the crank exit in base revision profile - B molding
- for the crank exit in side profile - A molding



10.16. Cutting list and amount of insulation for end cap with no drive.

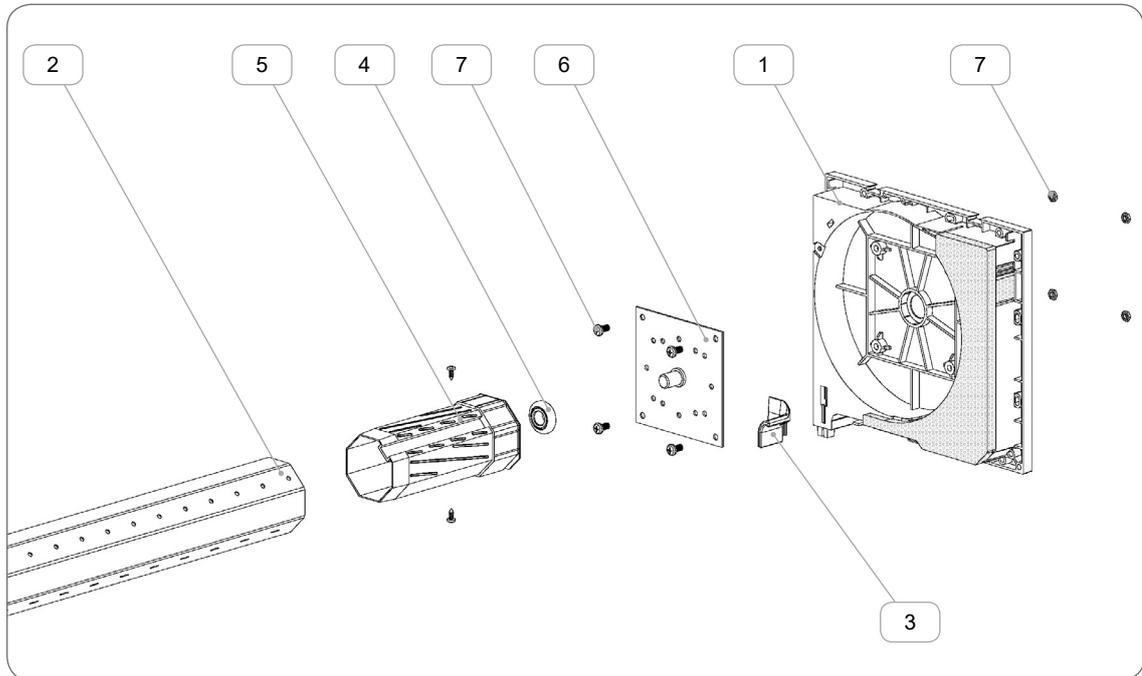
 The cap should be secured to the reel using two non-tapered screws at the opposite sides.



	Name of the component	Quantity	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	End cap	1 [pair]	PB/230/170, PBM/230/210, PBM/W/255/240	PB/230/210, PBM/230/210, PBM/W/230/210	PB/255/240, PBM/255/240, PBM/W/255/240
2.	Octagonal galvanized steel reel	1 [pcs.]			
	Ø40				
	Ø50				
	Ø60				
3.	Entry guide	1 [pair]	SLMI, SLMA, SLMI/A, SLMA/A		
4.	Ball bearing Ø28 mm	1 [pcs.]	LO28		
5.	Cap	4 [set]			
	SW40				
	SW50				
	SW60				
6.	Reduction	1 [pcs.]			
	SW60				
			RED40/60		

Variant with PAC PLATE

 The cap should be secured to the reel using two non-tapered screws at the opposite sides.



	Name of the component	Quantity	Catalogue code		
			SKT230/170	SKT230/210	SKT255/240
1.	End cap	1 [pair]	PB/230/170	PB/230/210	PB/255/240
2.	Octagonal galvanized steel reel	1 [pcs.]	SW6006, SW6010		
3.	Entry guide	1 [pair]	SLMI, SLMA		
4.	Ball bearing Ø28 mm	1 [pcs.]	LO28		
5.	Cap Ø60	1 [pcs.]	OBS60		
6.	Plate for gear mechanism ACEC	1 [pcs.]	PAC		
7.	Fasteners M x 10 mm	4 [pcs.]	ELZM5		

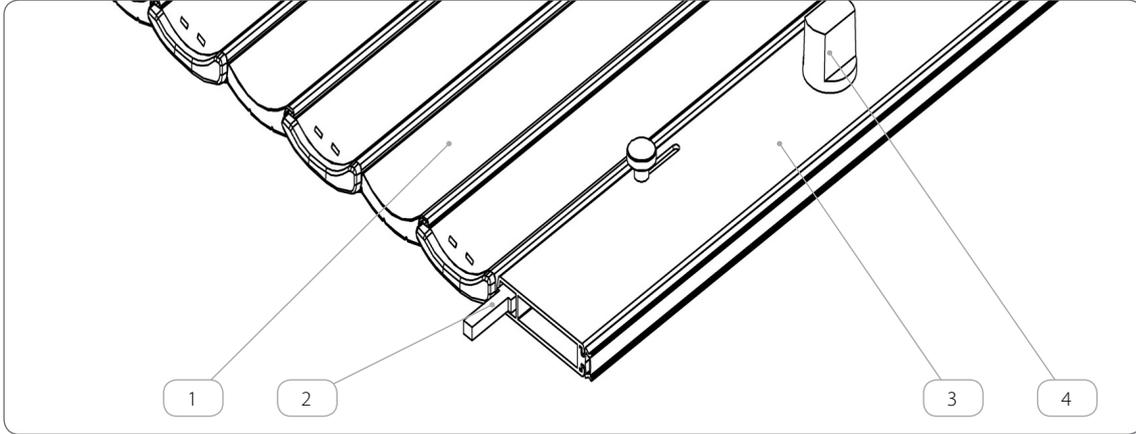
11. ANTI-LIFTING CURTAIN PROTECTION

11.1. Protections used with manual drive

11.1.1. RY bolt

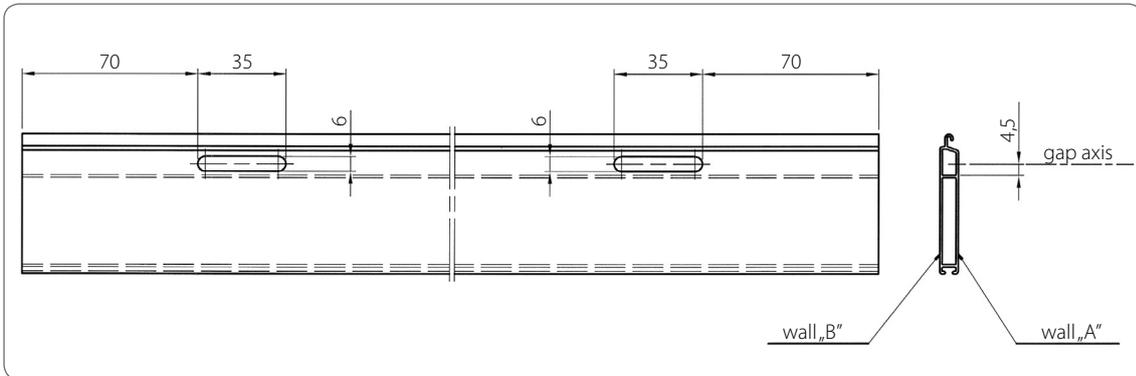
 In the case of a roller shutter set with a division wall, the RY bolt cannot be used on both sides of the wall.

11.1.1.1. Mounting method and list of components



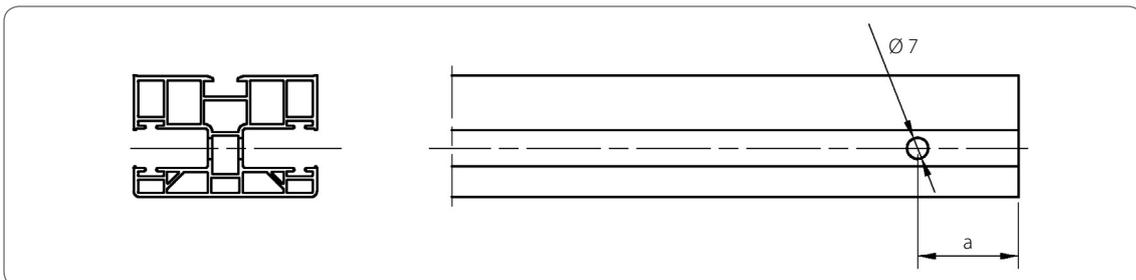
	Name of the component	Quantity	Catalogue code
1.	Roller shutter profile		PT37, PA37, PA39, PA40, PA43, PA45
2.	Bolt (lock)	2 [set]	RY
3.	Endslat	1 [pcs.]	LDG40, LDG, LDG-E
4.	Conical stopper	2 [pcs.]	BF/18, BF/30

11.1.1.2. Dimensions and position of the slots in the bottom bar.



Milling of holes in the endslat: 6 x 35 non-pass-through gaps in wall A

11.1.1.3. Dimensions and position of the hole in the guide channel.



Drilling of holes in the guide channel:

- for endslat LDG 40: a = 33 mm
- for endslat LDG, LDG-E: a = 48 mm

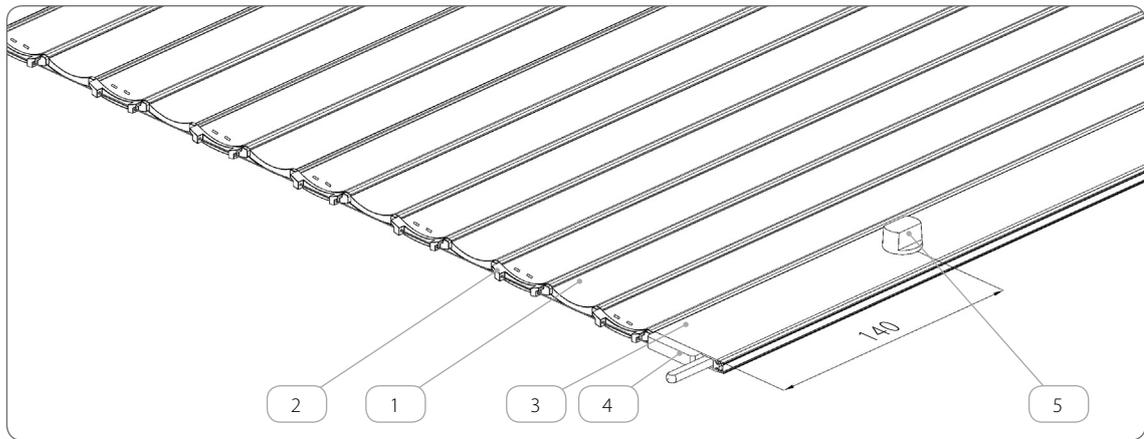
11.1.2. Automatic bolt RA

 In the case of a roller shutter set with a division wall, the RA bolt cannot be used on both sides of the wall.

 The minimum possible width of the roller shutter with the automatic lock is **0.5 m**. However, it is recommended that the minimum width of **1 m should be assumed**. If the width is less than 1 m, each case should be treated individually/experimentally. In such cases additional endslat ballast is necessary, buffers must be secured with locks and it may be impossible to open the lower profiles.

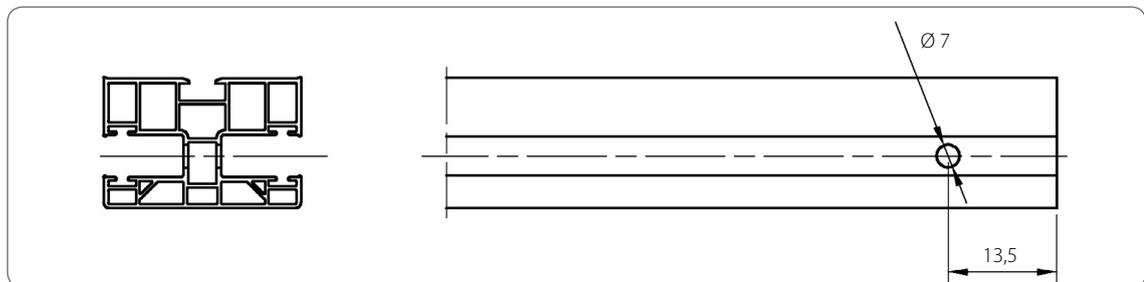
11.1.2.1. Mounting method and list of components

Automatic locks are located in the endslat. The steel cord of the automatic lock must be pulled through the side locks to the automatic lock and connected to the handle using screws. The handle to which the steel cord is attached should be placed between the 11th and 15th profile, counting from the endslat. This will make it possible to pull the lock completely into the endslat and unlock the curtain in the guide channels. The handle should be riveted or screwed to the profile in such a way that it does not block the roller shutter curtain during lifting and lowering.



	Name of the component	Quantity	Catalogue code
1.	Roller shutter profile		PA37, PA39, PA40, PA43, PA45, PA52
2.	Profile's side lock	2 [pcs.]	APA37/1, APA40/1, APA43/1, APA45/1, APA52/1
3.	Endslat	1 [pcs.]	LDG, LDG-E, LDG52, LDG52/OPT
4.	Automatic lock	1 [pair]	RA
5.	Conical stopper	2 [pcs.]	BF/18, BF/30

11.1.2.2. Dimensions and position of the hole in the guide channel.



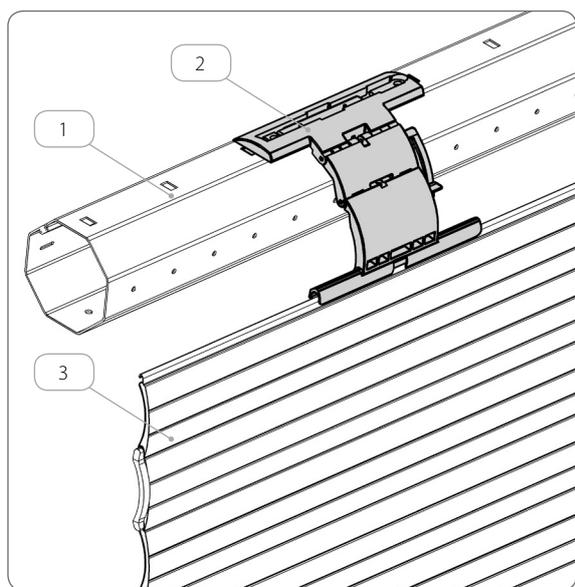
11.2. Protections used with electric drive

11.2.1. Bracket Octoeasy

OCTOEASY bracket is designed for the actuators equipped with the obstacle reaction system and the actuators with the automatic limit position adjustment mode.

Installation method

- 1) Place the bracket on the reel, while making sure that steel fasteners align with rectangular openings
- 2) Press the bracket against the reel
- 3) Lock by sliding the bracket to the right.



a) If used reel SW 40

	Name of the component	Quantity	Catalogue code
1.	Octagonal galvanized steel reel Ø40	1 [pcs.]	SW4005, SW4006
2.	Bracket Octoeasy	$\lceil [(A-1000)/800]+2 \rceil \geq 2$ [pcs.]	WOCTOEASY/2/40
3.	Aluminium profile	$(B-H_{\text{ENDSLAT}}-2/3 H_{\text{BOX}})/H_{\text{PROFILE}}$ [pcs.]	PA37, PA39

b) If used reel SW 50

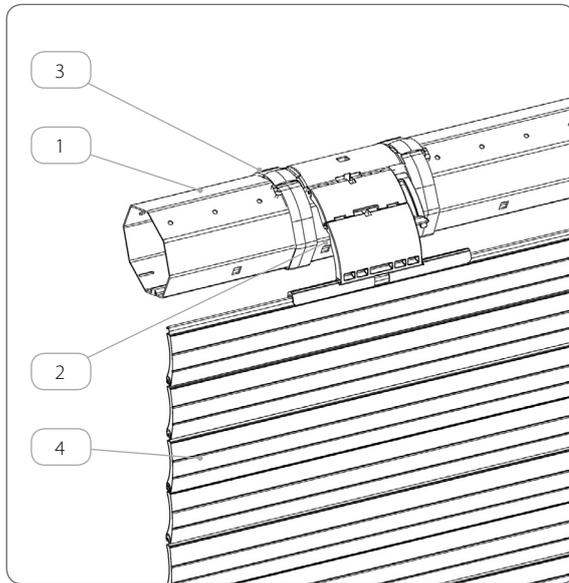
	Name of the component	Quantity	Catalogue code
1.	Octagonal galvanized steel reel Ø50	1 [pcs.]	SW5006
2.	Bracket Octoeasy	$\lceil [(A-1000)/800]+2 \rceil \geq 2$ [pcs.]	WOCTOEASY/2/50/60
3.	Aluminium profile	$(B-H_{\text{ENDSLAT}}-2/3 H_{\text{BOX}})/H_{\text{PROFILE}}$ [pcs.]	PA37, PA39, PA40, PA43, PA45

c) If used reel SW 60

	Name of the component	Quantity	Catalogue code
1.	Octagonal galvanized steel reel Ø60	1 [pcs.]	SW6006, SW6010
2.	Bracket Octoeasy	$\lceil [(A-1000)/800]+2 \rceil \geq 2$ [pcs.]	WOCTOEASY/2/50/60
3.	Aluminium profile	$(B-H_{\text{ENDSLAT}}-2/3 H_{\text{BOX}})/H_{\text{PROFILE}}$ [pcs.]	PA37, PA39, PA40, PA43, PA45, PA52, PA55

11.2.2. Bracket Lock&Play Somfy

These brackets are used only for the drive with an electric actuator. The rings are snap-fixed to the bracket. Lock & Play bracket is designed for the actuators equipped with the obstacle reaction system and the actuators with the automatic limit position adjustment mode.



a) If used reel SW 40

	Name of the component	Quantity	Catalogue code
1.	Octagonal galvanized steel reel	1 [pcs.]	SW4005, SW4006
2.	Bracket Lock&Play Somfy	$\lceil [(L_{SW} - 1000) / 800] + 2 \rceil \geq 2$ [pcs.]	WL&P/2/40
3.	Adapting ring for bracket Lock&Play Somfy	QUANTITY _{WL&P} x 2 [pcs.]	PWL&P/40
4.	Aluminium profile	$(B - H_{ENDSLAT} - 2/3 H_{BOX}) / H_{PROFILE}$ [pcs.]	PA37, PA39

b) If used reel SW 60

	Name of the component	Quantity	Catalogue code
1.	Octagonal galvanized steel reel	1 [pcs.]	SW6006, SW6010
2.	Bracket Lock&Play Somfy	$\lceil [(L_{SW} - 1000) / 800] + 2 \rceil \geq 2$ [pcs.]	WL&P/2/40
3.	Adapting ring for bracket Lock&Play Somfy	QUANTITY _{WL&P} x 2 [pcs.]	PWL&P/60
4.	Aluminium profile	$(B - H_{ENDSLAT} - 2/3 H_{BOX}) / H_{PROFILE}$ [pcs.]	PA37, PA39, PA40, PA43, PA45, PA52, PA55

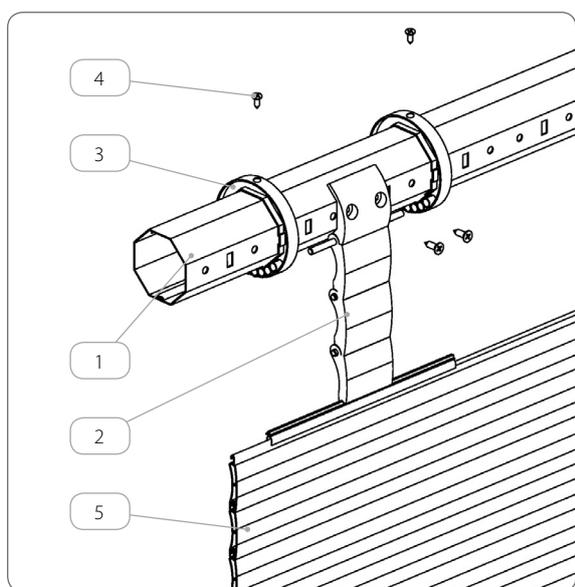
11.2.3. Security spring

Security springs are only used with electric motor and only when the box is built-in from outside the room.

One blockade should be installed on each side. If more security springs are required, install them at a maximum of 0,8 m apart. Slide the required number of rings for security spring on the round reel. Slide the security spring on the first profile and position it as close to the guide channel as possible. Attach the rings to the bracket and then fix the rings and security springs to the round reel using screws.

While fixing the adapting rings to the round reel on the section with the electrical motor, proceed with care to avoid contact between the screw and the motor reel. Otherwise, the motor can be damaged.

Having completed the installation, adjust the motor end positions to make the security spring slightly press against the roller shutter curtain, leaning against the box, to avoid the curtain lifting.



a) If used reel SW 40

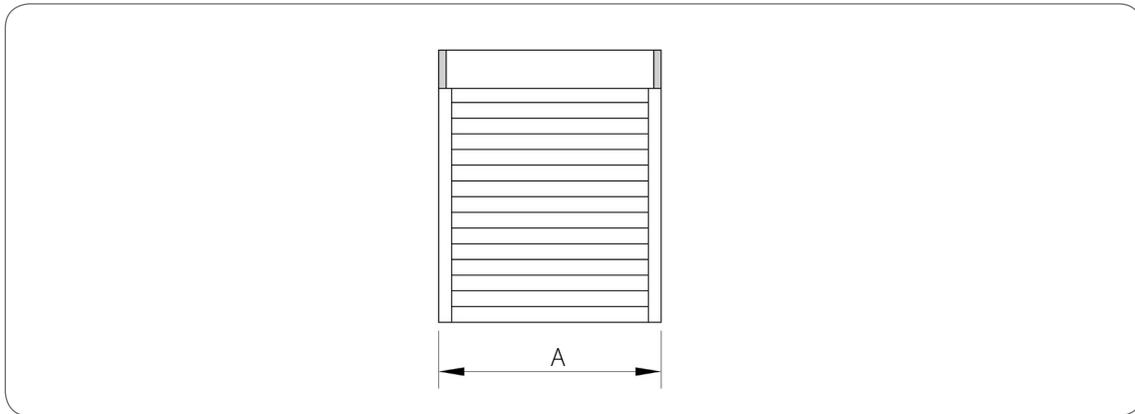
	Name of the component	Quantity	Catalogue code
1.	Octagonal galvanised steel reel Ø40	1 [pcs.]	SW4005, SW4006
2.	Security spring	$\lceil [(A-1000)/800]+2 \rceil \geq 2$ [pcs.]	WB/M2, WB/M3
3.	Ring for security spring	QUANTITY _{WB} x 2 [pcs.]	PW/40
4.	Galvanized screw 3,9 x 16 mm	QUANTITY _{WB} x 2 [pcs.]	WKR/Zn/S/3,9x16
5.	Aluminium profile	$\lfloor (H_{\text{GUIDE CHANNEL}} - H_{\text{ENDSLAT}} + H_{\text{PROFILE}}) / H_{\text{PROFILE}} \rfloor$	PA37, PA39, PA40, PA43, PA45

b) If used reel SW 60

	Name of the component	Quantity	Catalogue code
1.	Octagonal galvanised steel reel Ø60	1 [pcs.]	SW6006, SW6010
2.	Security spring	$\lceil [(A-1000)/800]+2 \rceil \geq 2$ [pcs.]	WB/M2, WB/M3, WB/D3
3.	Ring for security spring	QUANTITY _{WB} x 2 [pcs.]	PW/60
4.	Galvanized screw 3,9 x 16 mm	QUANTITY _{WB} x 2 [pcs.]	WKR/Zn/S/3,9x16
5.	Aluminium profile	$\lfloor (H_{\text{GUIDE CHANNEL}} - H_{\text{ENDSLAT}} + H_{\text{PROFILE}}) / H_{\text{PROFILE}} \rfloor$	PA37, PA39, PA40, PA43, PA45, PA52, PA55

Profile	Rura	Box		
		SKT230/170	SKT230/210	SKT255/240
PA37, PA39, PA40, PA43, PA45	SW 40	WB/M2	WB/M2	WB/M3
	SW 60	WB/M2	WB/M2	WB/M3
PA52	SW 60	WB/M2	WB/M2	WB/M3
PA55	SW 60	-	WB/D3*	WB/D3

* Remove 1 segment of the security spring.

12. MKT SET
12.1. Cutting specification and list of components
12.1.1. Single roller shutter

SKT + MKT

	Name of the component	Length	Quantity	Catalogue code
1.	Moskito set		1 [set]	ZMKTSKT
2.	Round reel with mosquito-net	A-89 [mm]	1 [pcs.]	RNSMKT-1,6, RNSMKT-2,5
3.	Brake (option)		1 [pcs.]	SR52050N
4.	Endslat	A-128 [mm]	1 [pcs.]	LDSMMKT

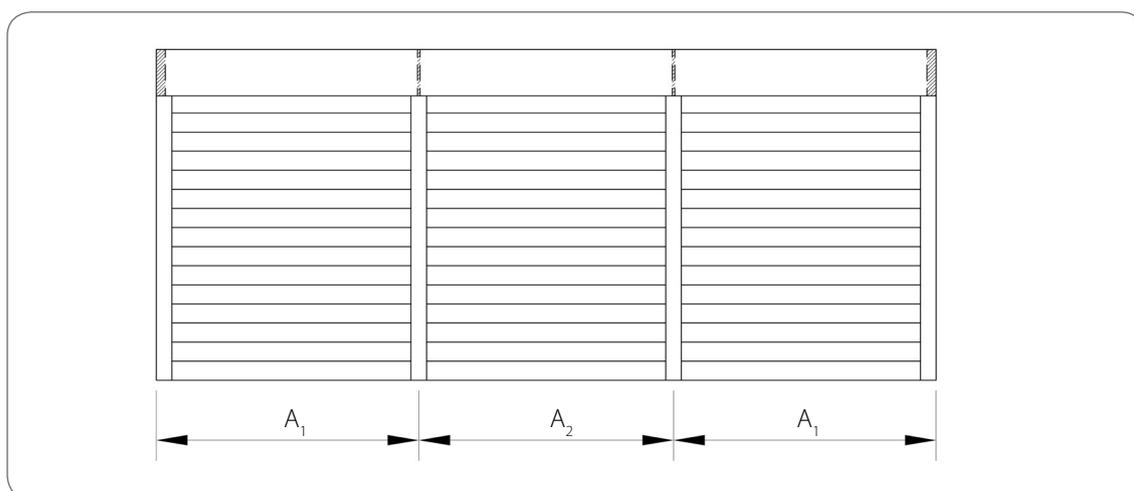
SKT Nova

	Name of the component	Length	Quantity	Catalogue code
1.	Moskito set		1 [set]	ZMKTSKT/W
2.	Round reel with mosquito-net	A-84 [mm]	1 [pcs.]	RNSMKT-1,6, RNSMKT-2,5
3.	Brake (option)		1 [pcs.]	SR52050N
4.	Endslat	A-128 [mm]	1 [pcs.]	LDSMMKT

SKT Nova (AluClick set)

	Name of the component	Length	Quantity	Catalogue code
1.	Moskito set		1 [set]	ZMKTSKT/W/AC
2.	Round reel with mosquito-net	A-84 [mm]	1 [pcs.]	RNSMKT-1,6, RNSMKT-2,5
3.	Brake (option)		1 [pcs.]	SR52050N
4.	Endslat	A-134 [mm]	1 [pcs.]	LDSMMKT
5.	Endslat seal	A-120 [mm]	1 [pcs.]	U10/MR

12.1.2. Roller shutter set with division wall



SKT + MKT

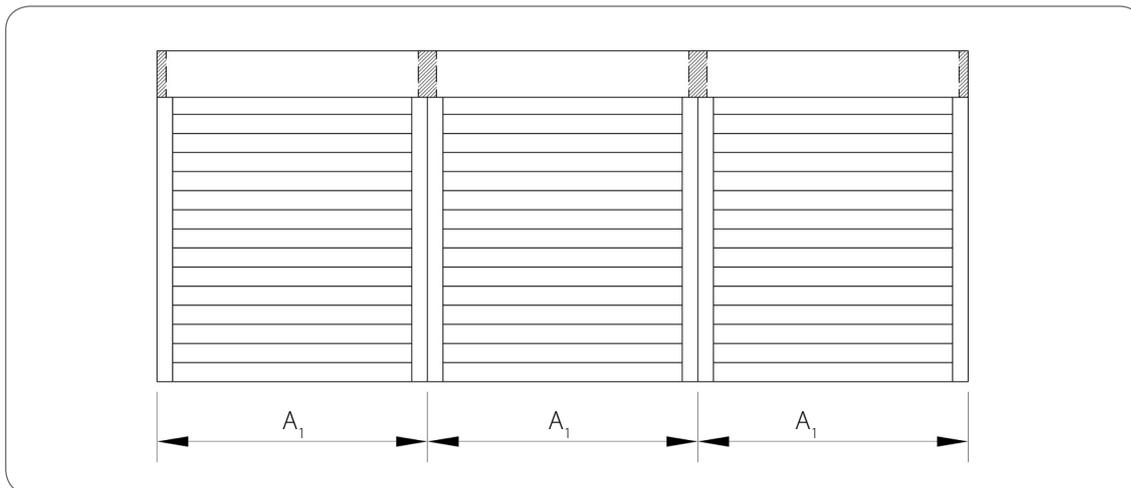
	Name of the component	Length	Catalogue code
1.	Moskito set		ZMKTSKT
2.	Round reel with mosquito-net	A_1 - 59 [mm] A_2 - 29 [mm]	RNSMKT-1,6, RNSMKT-2,5
3.	Brake (option)		SR52050N
4.	Endslat	A_1 - 98 [mm] A_2 - 68 [mm]	LDSMMKT

SKT Nova

	Name of the component	Length	Catalogue code
1.	Moskito set		ZMKTSKT/W
2.	Round reel with mosquito-net	A_1 - 54 [mm] A_2 - 24 [mm]	RNSMKT-1,6, RNSMKT-2,5
3.	Brake (option)		SR52050N
4.	Endslat	A_1 - 98 [mm] A_2 - 68 [mm]	LDSMMKT

SKT Nova (AluClick set)

	Name of the component	Length	Catalogue code
1.	Moskito set		ZMKTSKT/W/AC
2.	Round reel with mosquito-net	A_1 - 54 [mm] A_2 - 24 [mm]	RNSMKT-1,6, RNSMKT-2,5
3.	Brake (option)		SR52050N
4.	Endslat	A_1 - 104 [mm] A_2 - 74 [mm]	LDSMMKT
5.	Endslat seal	A_1 - 90 [mm] A_2 - 60 [mm]	U10/MR

12.1.3. Roller shutter set with internal compound end caps.

SKT + MKT

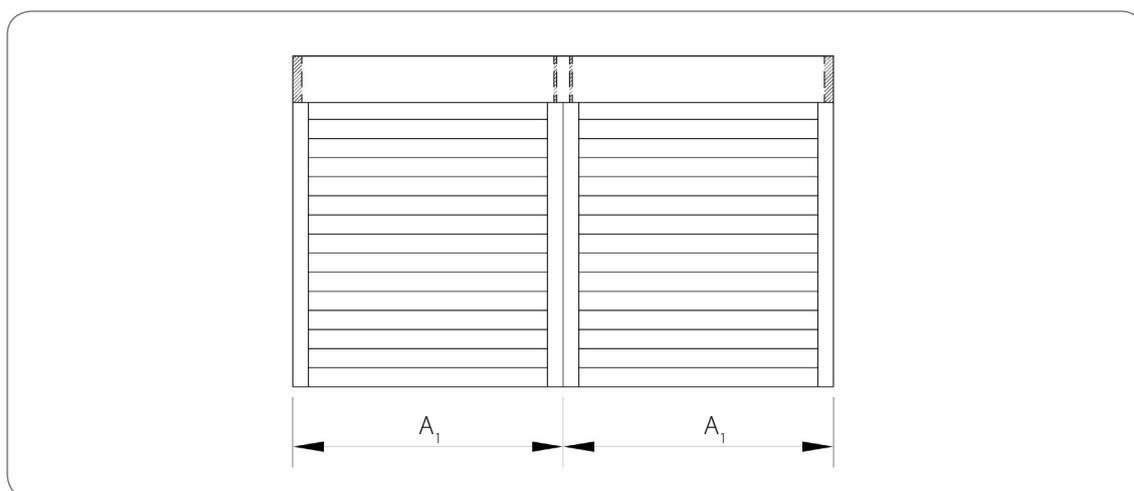
	Name of the component	Length	Catalogue code
1.	Moskito set		ZMKTSKT
2.	Round reel with mosquito-net	$A_1 - 89$ [mm]	RNSMKT-1,6, RNSMKT-2,5
3.	Brake (option)		SR52050N
4.	Endslat	$A_1 - 128$ [mm]	LDSMMKT

SKT Nova

	Name of the component	Length	Catalogue code
1.	Moskito set		ZMKTSKT/W
2.	Round reel with mosquito-net	$A_1 - 84$ [mm]	RNSMKT-1,6, RNSMKT-2,5
3.	Brake (option)		SR52050N
4.	Endslat	$A_1 - 128$ [mm]	LDSMMKT

SKT Nova (AluClick set)

	Name of the component	Length	Catalogue code
1.	Moskito set		ZMKTSKT/W/AC
2.	Round reel with mosquito-net	$A_1 - 84$ [mm]	RNSMKT-1,6, RNSMKT-2,5
3.	Brake (option)		SR52050N
4.	Endslat	$A_1 - 134$ [mm]	LDSMMKT
5.	Endslat seal	$A_1 - 120$ [mm]	U10/MR

12.1.4. Roller shutter set with double division wall.

SKT + MKT

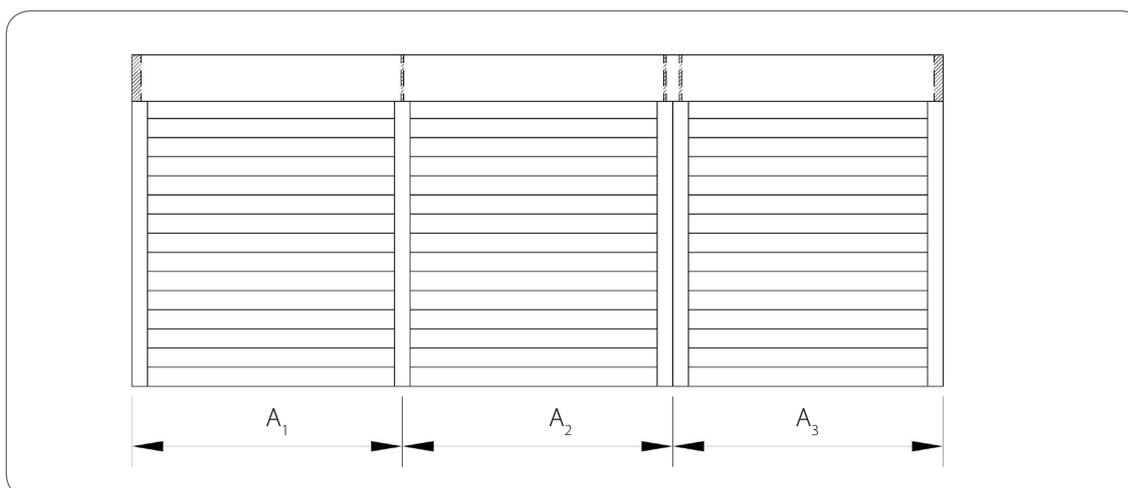
	Name of the component	Length	Catalogue code
1.	Moskito set		ZMKTSKT
2.	Round reel with mosquito-net	$A_1 - 89$ [mm]	RNSMKT-1,6, RNSMKT-2,5
3.	Brake (option)		SR52050N
4.	Endslat	$A_1 - 128$ [mm]	LDSMMKT

SKT Nova

	Name of the component	Length	Catalogue code
1.	Moskito set		ZMKTSKT/W
2.	Round reel with mosquito-net	$A_1 - 84$ [mm]	RNSMKT-1,6, RNSMKT-2,5
3.	Brake (option)		SR52050N
4.	Endslat	$A_1 - 128$ [mm]	LDSMMKT

SKT Nova (AluClick set)

	Name of the component	Length	Catalogue code
1.	Moskito set		ZMKTSKT/W/AC
2.	Round reel with mosquito-net	$A_1 - 84$ [mm]	RNSMKT-1,6, RNSMKT-2,5
3.	Brake (option)		SR52050N
4.	Endslat	$A_1 - 134$ [mm]	LDSMMKT
5.	Endslat seal	$A_1 - 120$ [mm]	U10/MR

12.1.5. Roller shutter set with single and double division wall.

SKT + MKT

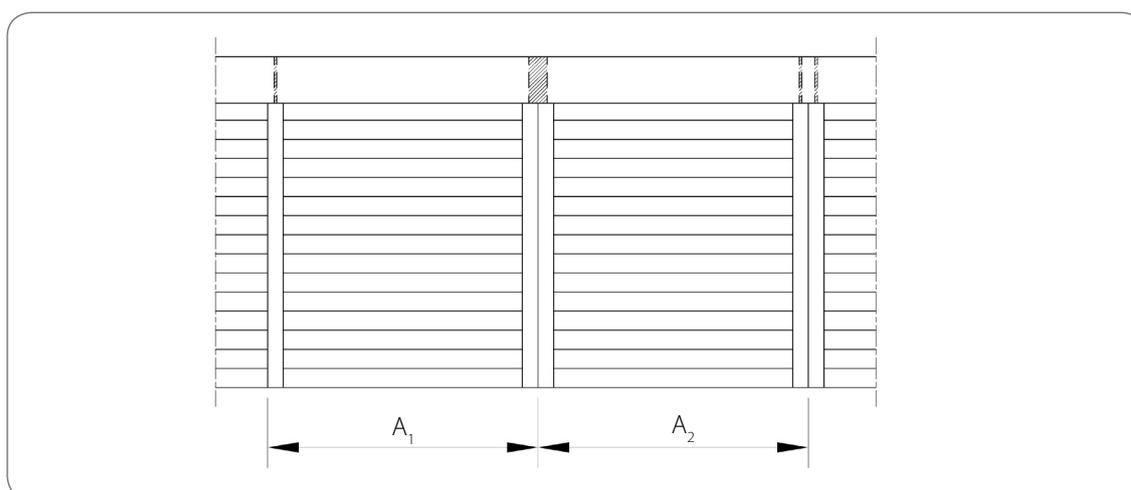
	Name of the component	Length	Catalogue code
1.	Moskito set		ZMKTSKT
2.	Round reel with mosquito-net	A ₁ -59 [mm] A ₂ -59 [mm] A ₃ -89 [mm]	RNSMKT-1,6, RNSMKT-2,5
3.	Brake (option)		SR52050N
4.	Endslat	A ₁ -98 [mm] A ₂ -98 [mm] A ₃ -128 [mm]	LDSMMKT

SKT Nova

	Name of the component	Length	Catalogue code
1.	Moskito set		ZMKTSKT/W
2.	Round reel with mosquito-net	A ₁ - 54 [mm] A ₂ -54 [mm] A ₃ -84 [mm]	RNSMKT-1,6, RNSMKT-2,5
3.	Brake (option)		SR52050N
4.	Endslat	A ₁ -98 [mm] A ₂ -98 [mm] A ₃ -128 [mm]	LDSMMKT

SKT Nova (AluClick set)

	Name of the component	Length	Catalogue code
1.	Moskito set		ZMKTSKT/W/AC
2.	Round reel with mosquito-net	A ₁ - 54 [mm] A ₂ -54 [mm] A ₃ -84 [mm]	RNSMKT-1,6, RNSMKT-2,5
3.	Brake (option)		SR52050N
4.	Endslat	A ₁ - 104 [mm] A ₂ - 104 [mm] A ₃ -134 [mm]	LDSMMKT
5.	Endslat seal	A ₁ - 90 [mm] A ₂ - 90 [mm] A ₃ -120 [mm]	U10/MR

12.1.6. Roller shutte set with single and double division wall and compound internal end caps.

SKT + MKT

	Name of the component	Length	Catalogue code
1.	Moskito set		ZMKTSKT
2.	Round reel with mosquito-net	A ₁ -59 [mm] A ₂ -89 [mm]	RNSMKT-1,6, RNSMKT-2,5
3.	Brake (option)		SR52050N
4.	Endslat	A ₁ -98 [mm] A ₂ -128 [mm]	LDSMMKT

SKT Nova

	Name of the component	Length	Catalogue code
1.	Moskito set		ZMKTSKT/W
2.	Round reel with mosquito-net	A ₁ - 54 [mm] A ₂ -84 [mm]	RNSMKT-1,6, RNSMKT-2,5
3.	Brake (option)		SR52050N
4.	Endslat	A ₁ -98 [mm] A ₂ -128 [mm]	LDSMMKT

SKT Nova (AluClick set)

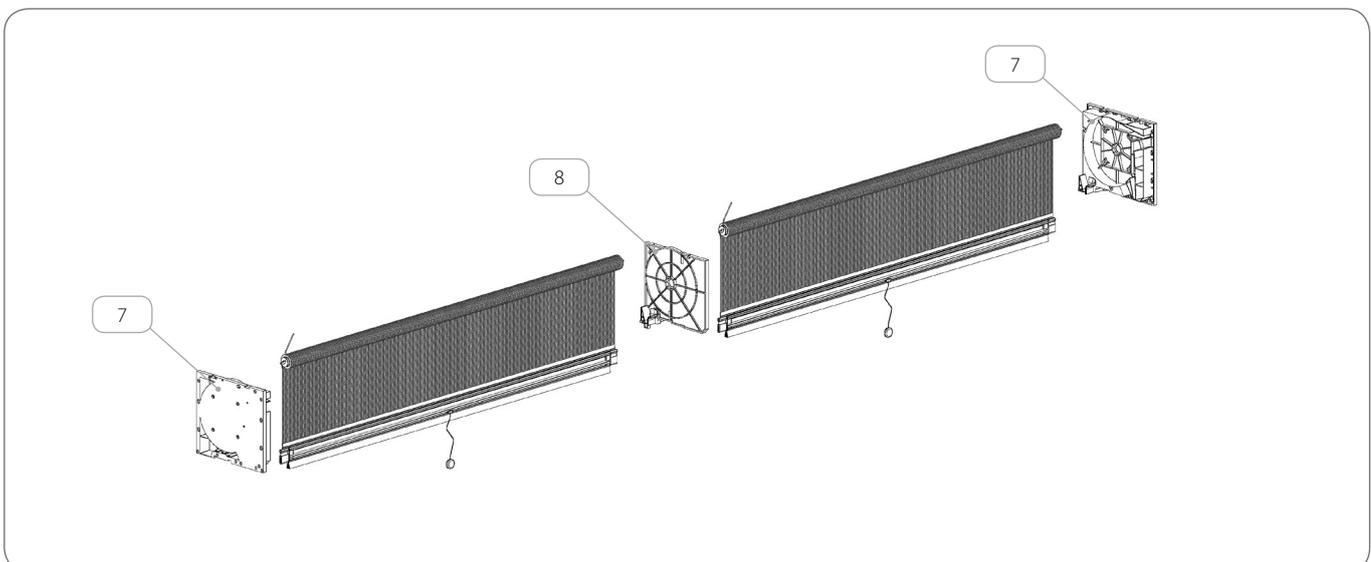
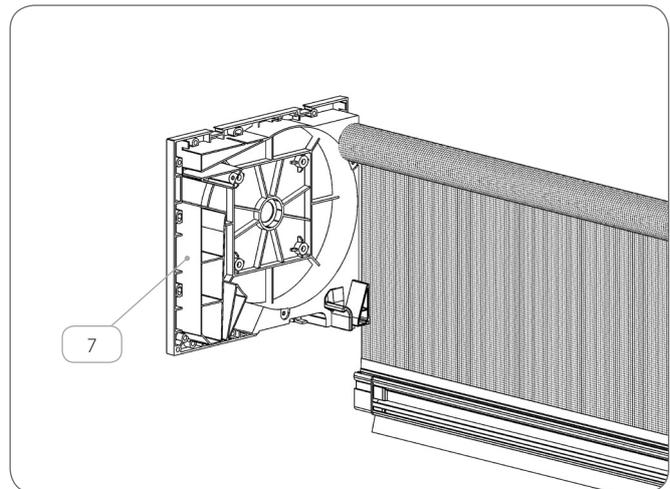
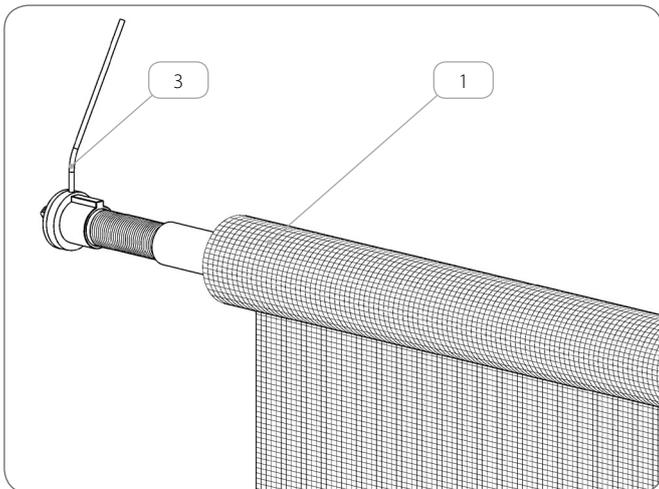
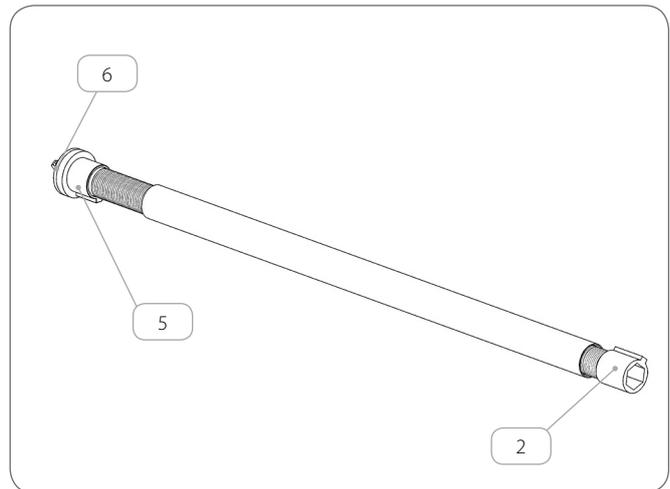
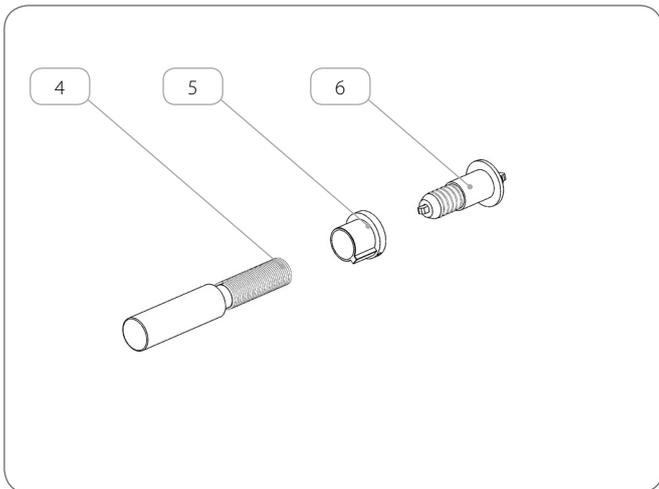
	Name of the component	Length	Catalogue code
1.	Moskito set		ZMKTSKT/W/AC
2.	Round reel with mosquito-net	A ₁ - 54 [mm] A ₂ -84 [mm]	RNSMKT-1,6, RNSMKT-2,5
3.	Brake (option)		SR52050N
4.	Endslat	A ₁ - 104 [mm] A ₂ - 134 [mm]	LDSMMKT
5.	Endslat seal	A ₁ - 90 [mm] A ₂ - 120 [mm]	U10/MR

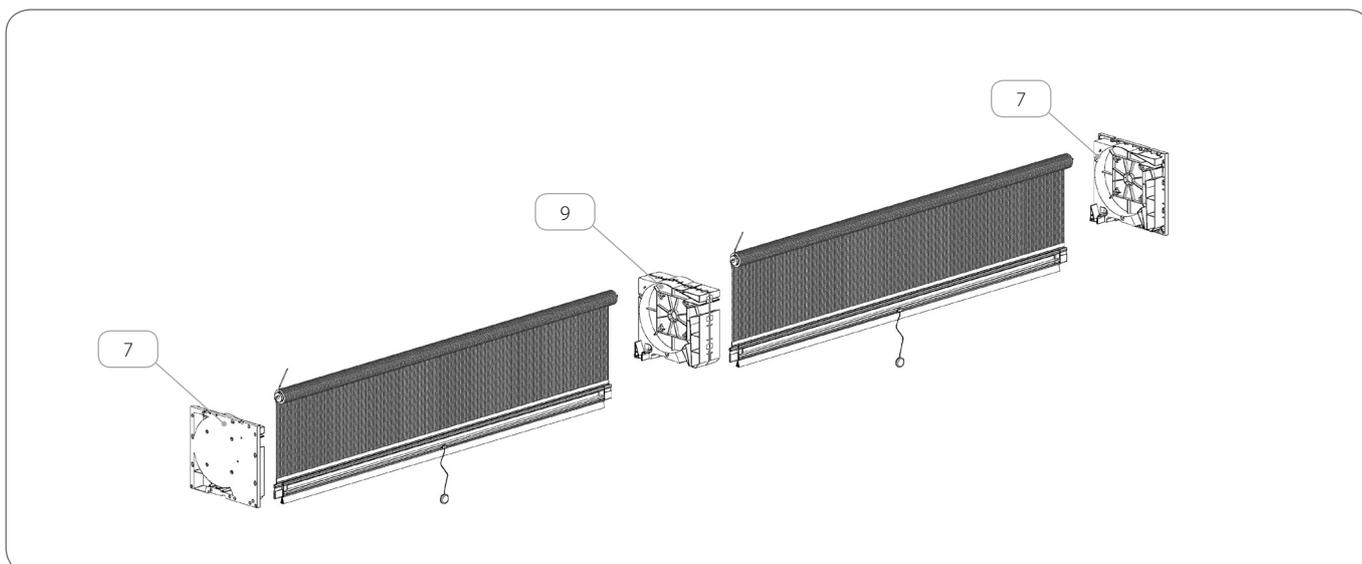
12.2. Instructions for preparation and installation of insect screen

12.2.1. SKT + MKT

When cutting the round reel with the mosquito net, it is recommended to protect the edge with tape in order to eliminate the problem of the net fraying and seizing aluminium filings.

The spring tensioning operation should be started by placing the tensioning unit in the reel with the insect screen net in such a way that the part used for tensioning is free. Place any device (for example a rivet) with a diameter of up to 2 mm in the opening on the tensioning unit so as to connect the bearing and the bracket on which the spring is wound, and then tension the spring by turning the entire mechanism clockwise.





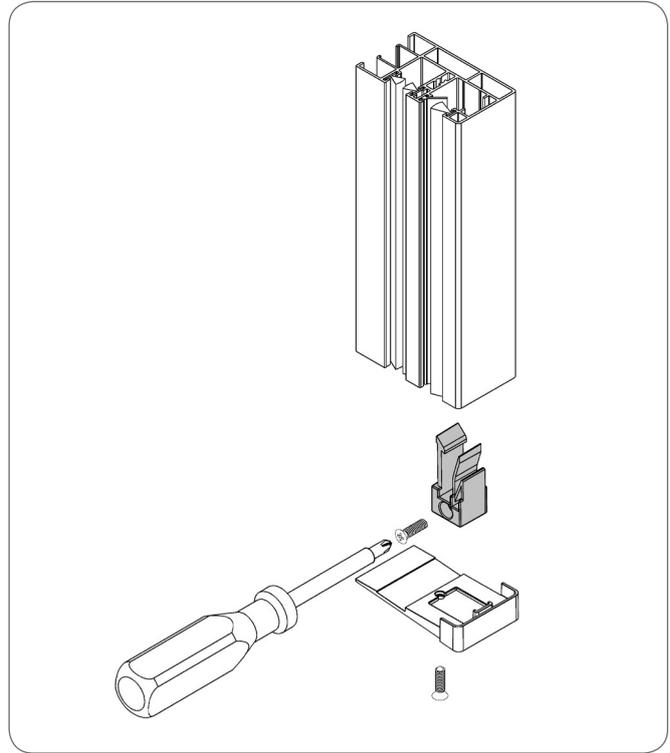
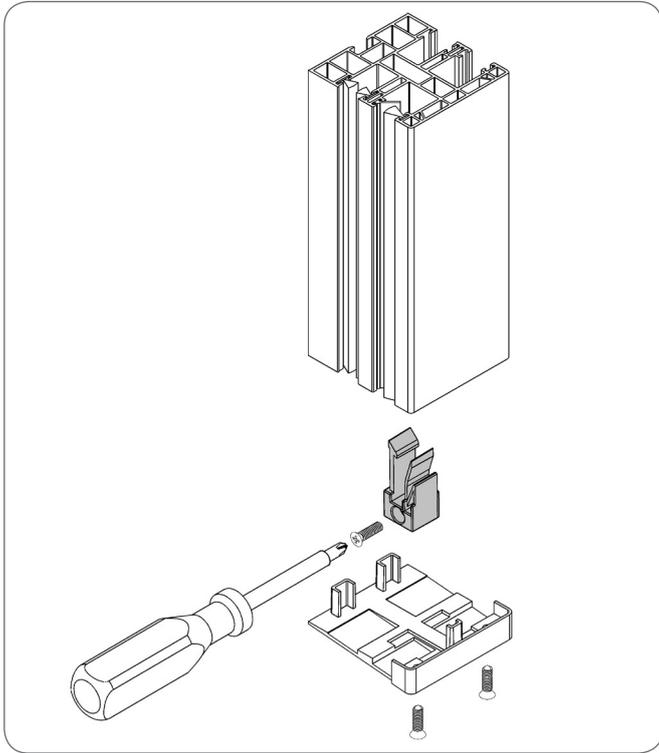
	Name of the component	Catalogue code
1.	Round reel with mosquito-net	RNSMKT
2.	Coupling with spring	
3.	Rod (rivet) round Ø 2 mm	
4.	Brake	SR52050N
5.	Ball bearing	
6.	Support	
7.	End cap for shutter box SKT with MKT	PBM/230/170, PBM/230/210, PBM/255/240
8.	Division wall for shutter box SKT with MKT	SPM/230/170, SPM/230/210, SPM/255/240
9.	Compound internal end caps for shutter box SKT with MKT	PBMW/230/170, PBMW/230/210, PBMW/255/240

The number of spring turns for particular ranges of the roller shutter width, depending on the type of insect screen net, is given in the following tables.

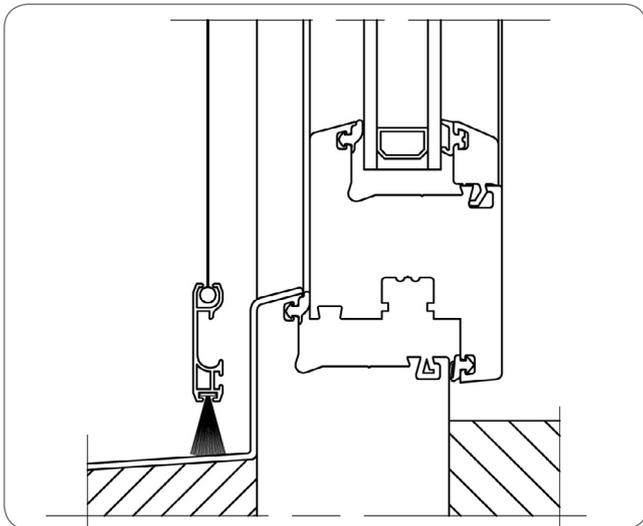
WIDTH OF ROLLER SHUTTER [mm]	NUMBER OF SPRING TURNS		
	For net RNS MKT		
	550 - 1100	1101 - 1600	1601 - 2000
RNS MKT - 1,6	3 - 6	6 - 9	9 - 10
RNS MKT - 2,5			

WIDTH OF ROLLER SHUTTER [mm]	NUMBER OF SPRING TURNS		
	For net RNS MKT + Brake SR 52050N		
	650 - 1100	1101 - 1600	1601 - 2000
RNS MKT - 1,6	14 - 15	15 - 17	17 - 20
RNS MKT - 2,5	15 - 16	16 - 19	19 - 21

The cap seat are marked with the letters „L” and „R”. Cap seat marked „L” should be mounted on the side of the left end cap, similarly, the cap seat marked with the letter “R” on the side of the right end cap. Insert the cap seat from below to the guide channel chamber. Fasten the guide channel side lock and secure the cap seat using a screw.

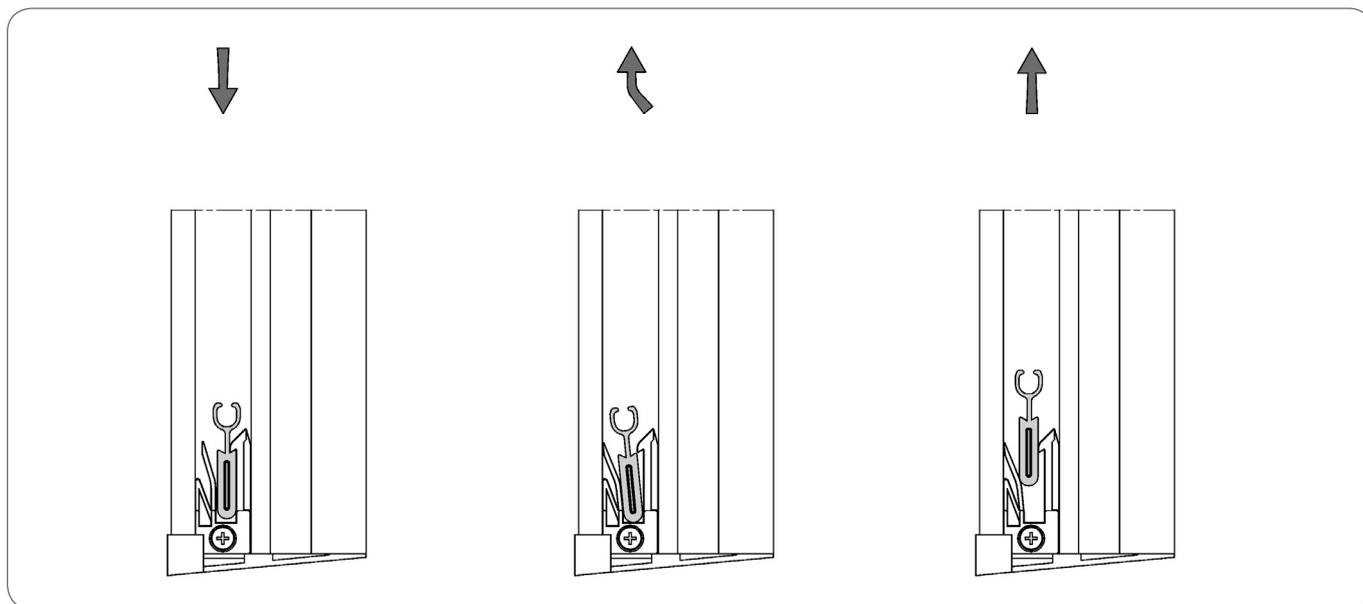


The coupling with the spring, protective tube and slide bearing located in the net reel should always be fixed to the right end cap (marked as “R”) in case of SPM division wall the situation is identical - see pictures above. The endslat **LDSM MKT** allows sealing to the window sill:



In order to close the insect screen, shift the endslat to its final (lower) position.

The opening method is shown in the drawing below - press the **LDSM MKT** endslat down and tilt it slightly forwards.



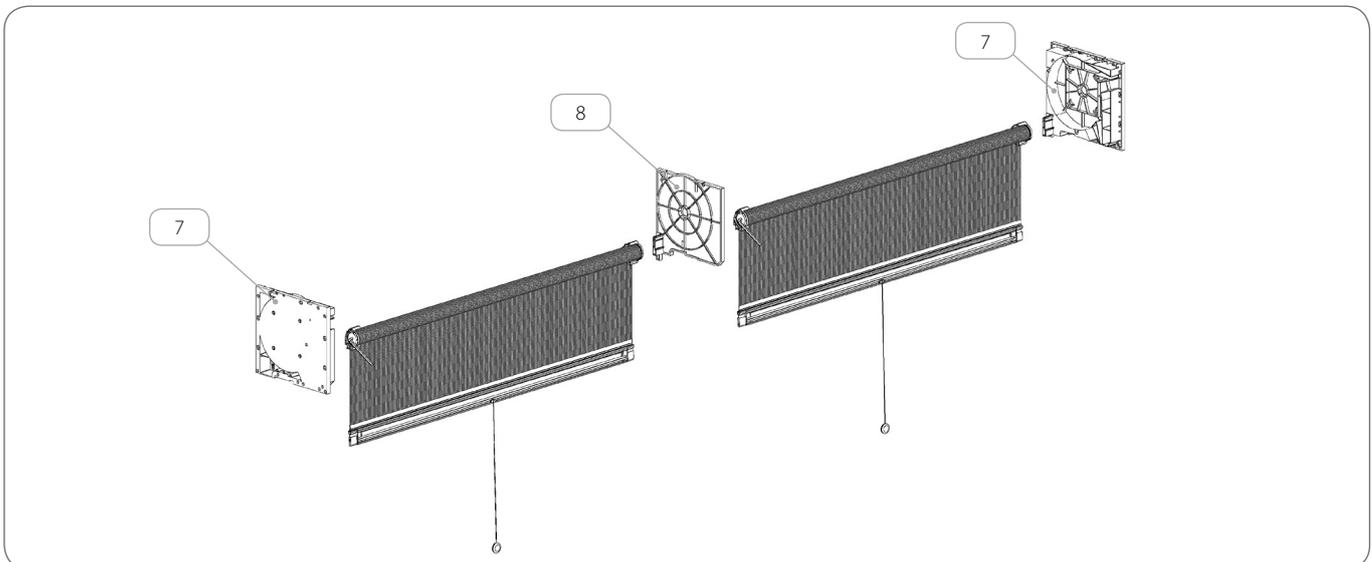
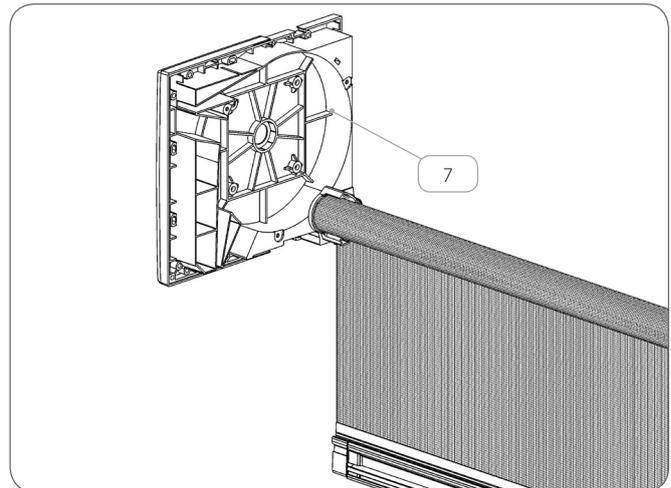
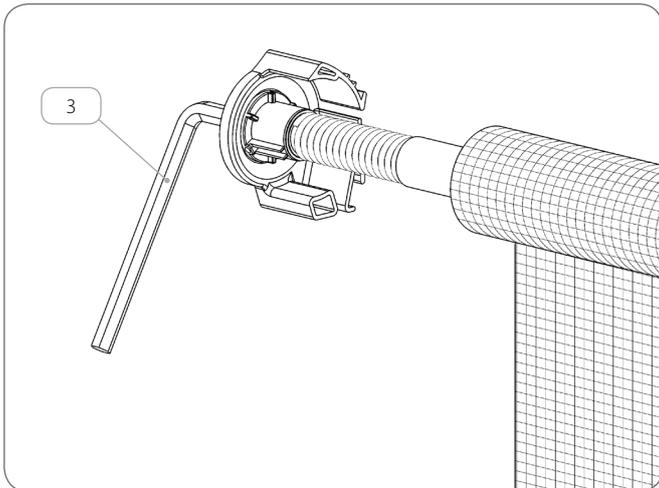
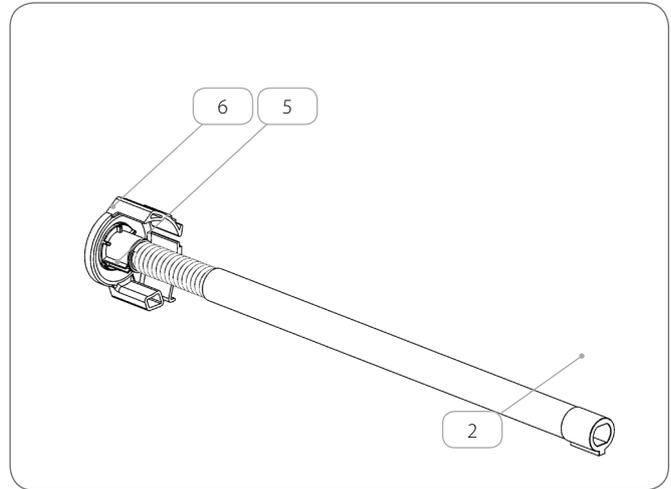
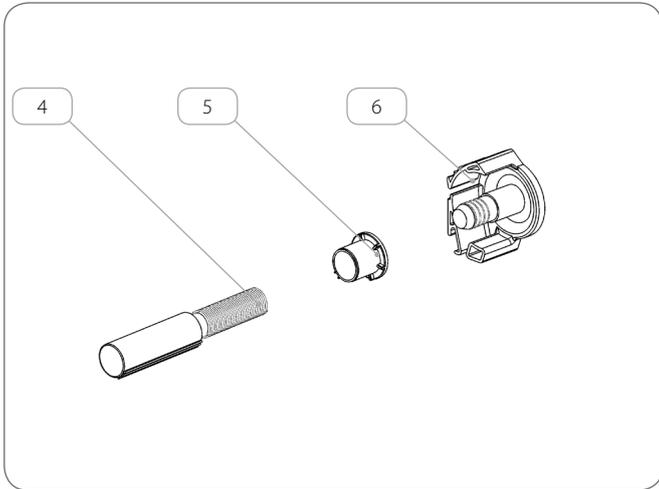
 After the installation, remove the threads securing the brush seal in the **LDSM MKT** endslat.

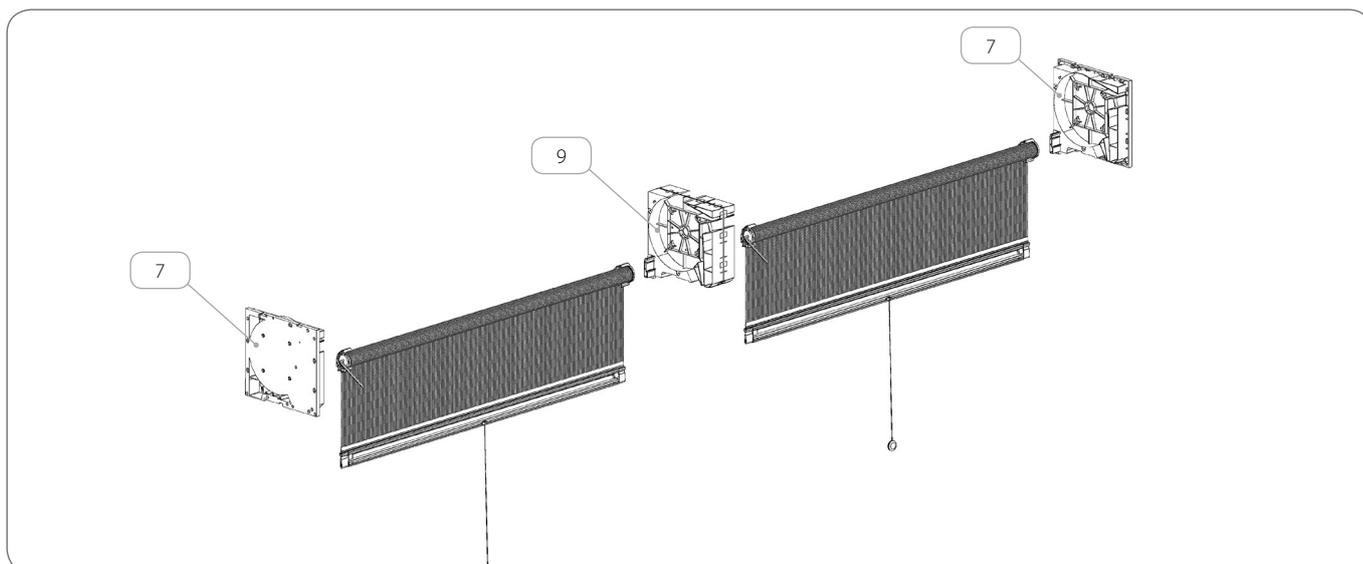
 It is forbidden to open and close the mosquito net when the roller shutter's curtain is dropped..

12.2.2. SKT Nova

When cutting the round reel with the mosquito net, it is recommended to protect the edge with tape in order to eliminate the problem of the net fraying and seizing aluminium filings.

The spring tensioning operation should be started by placing the tensioning unit in the reel with the insect screen net in such a way that the part used for tensioning is free. Place a 6 mm Allen wrench in the opening on the insect screen side and tension the spring by turning the entire mechanism clockwise.





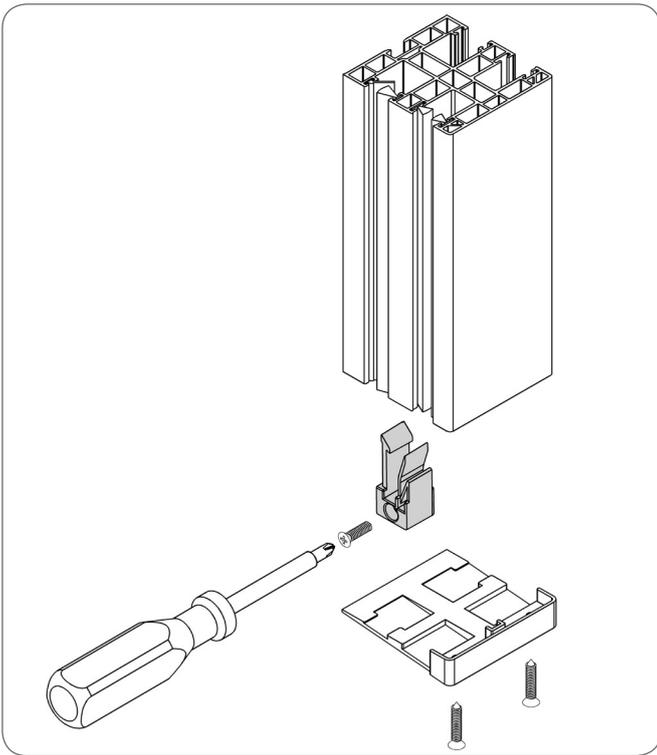
	Name of the component	Catalogue code
1.	Round reel with mosquito-net	RNSMKT
2.	Coupling with spring	
3.	Allen wrench	
4.	Brake	SR52050N
5.	Ball bearing	
6.	Insect screen side	
7.	End cap for shutter box SKT with MKT	PBM/W/230/170, PBM/W/230/210, PBM/W/255/240
8.	Division wall for shutter box SKT with MKT	SPM/W/230/170, SPM/W/230/210, SPM/W/255/240
9.	Compound internal end caps for shutter box SKT with MKT	PBMW/W/230/170, PBMW/W/230/210, PBMW/W/255/240

The number of spring turns for particular ranges of the roller shutter width, depending on the type of insect screen net, is given in the following tables.

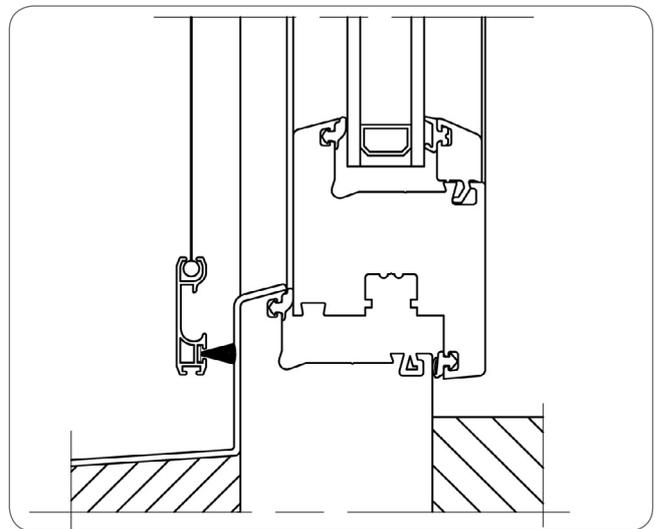
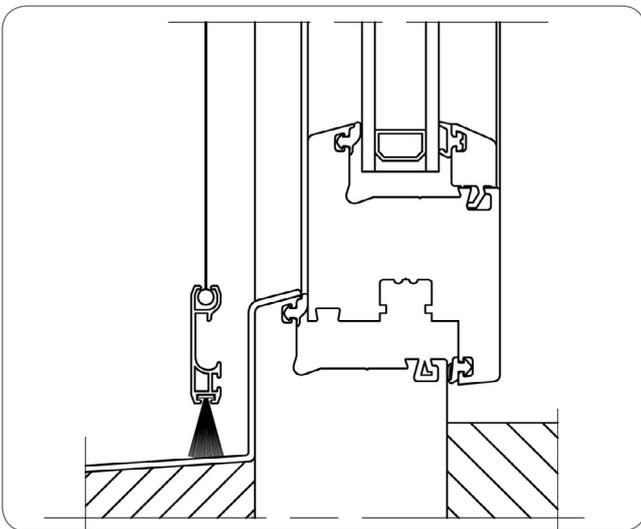
NUMBER OF SPRING TURNS			
For net RNS MKT			
WIDTH OF ROLLER SHUTTER [mm]	550 - 1100	1101 - 1600	1601 - 2000
RNS MKT - 1,6	3-6	6-9	9-10
RNS MKT - 2,5			

NUMBER OF SPRING TURNS			
For net RNS MKT + Brake SR 52050N			
WIDTH OF ROLLER SHUTTER [mm]	650 - 1100	1101 - 1600	1601 - 2000
RNS MKT - 1,6	14 - 15	15 - 17	17 - 20
RNS MKT - 2,5	15 - 16	16 - 19	19 - 21

The cap seat are marked with the letters „L” and „R”. Cap seat marked „L” should be mounted on the side of the left end cap, similarly, the cap seat marked with the letter “R” on the side of the right end cap. Insert the cap seat from below to the guide channel chamber. Fasten the guide channel side lock and secure the cap seat using a screw.

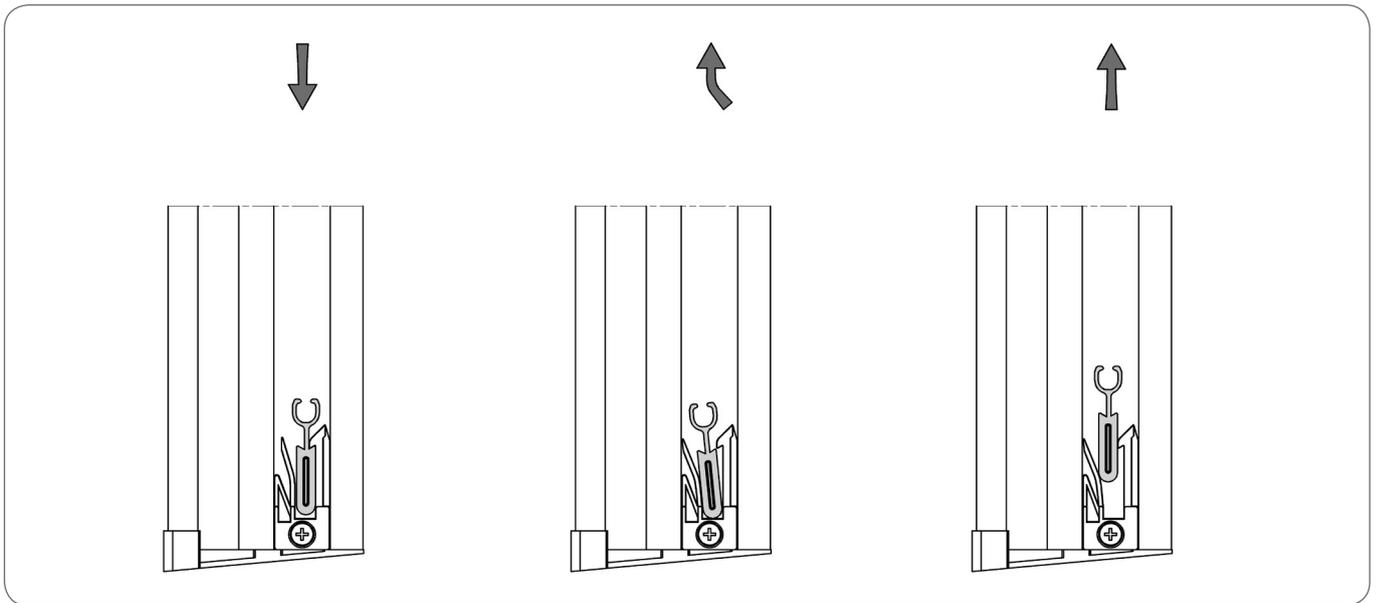


The coupling with the spring, protective tube and slide bearing located in the net reel should always be fixed to the right end cap (marked as “R”) in case of **SPM/W** division wall the situation is identical - see pictures above. The endslat **LDSM MKT** allows sealing to the window sill:



In order to close the insect screen, shift the endslat to its final (lower) position.

The opening method is shown in the drawing below - press the **LDSM MKT** endslat down and tilt it slightly forwards.

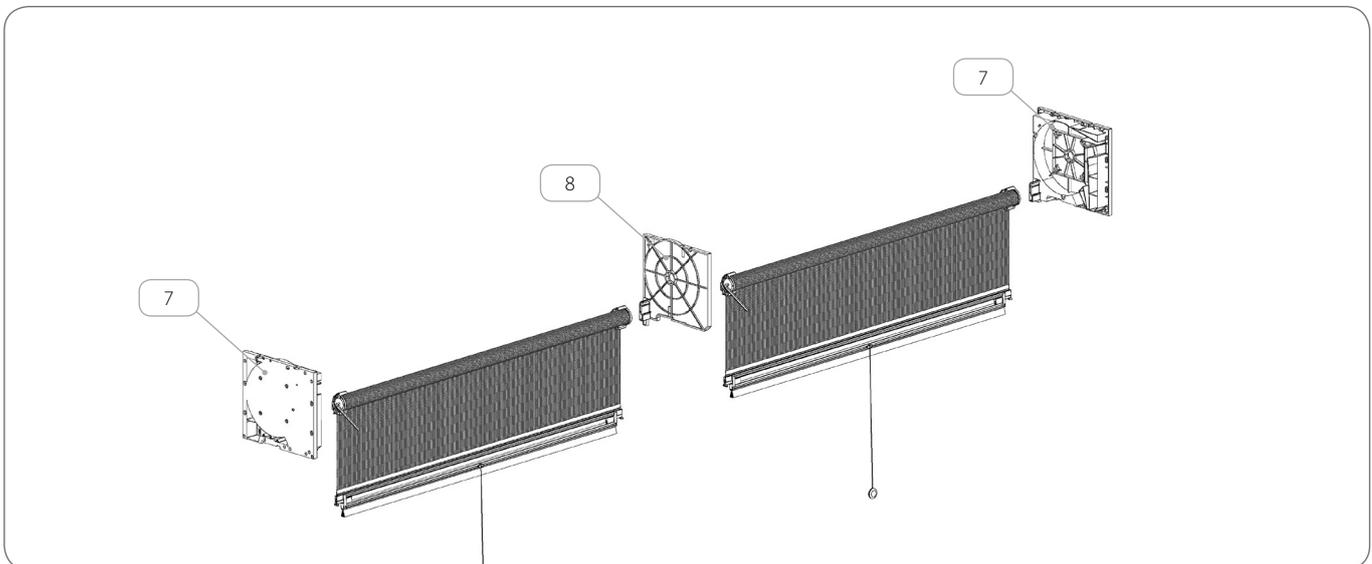
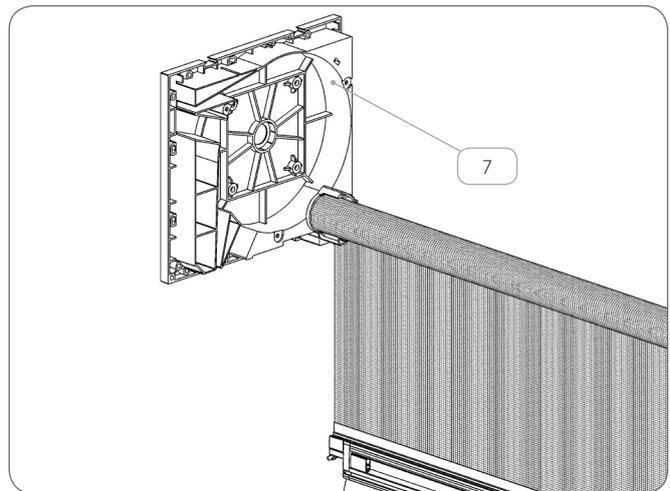
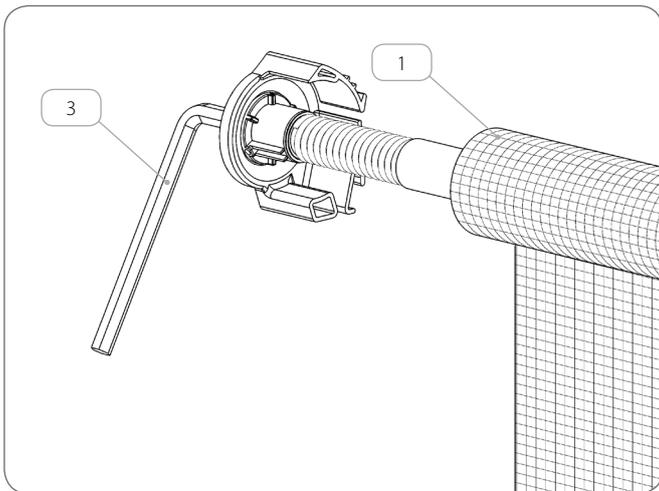
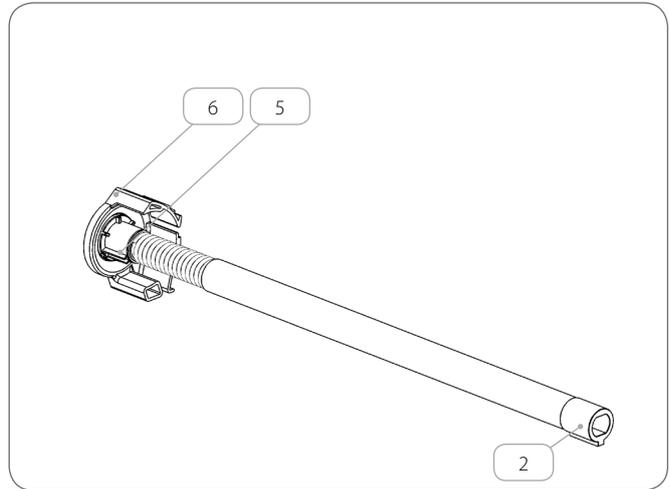
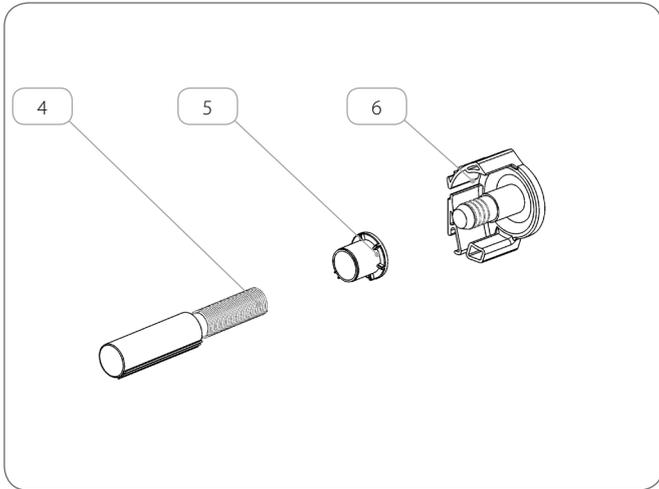


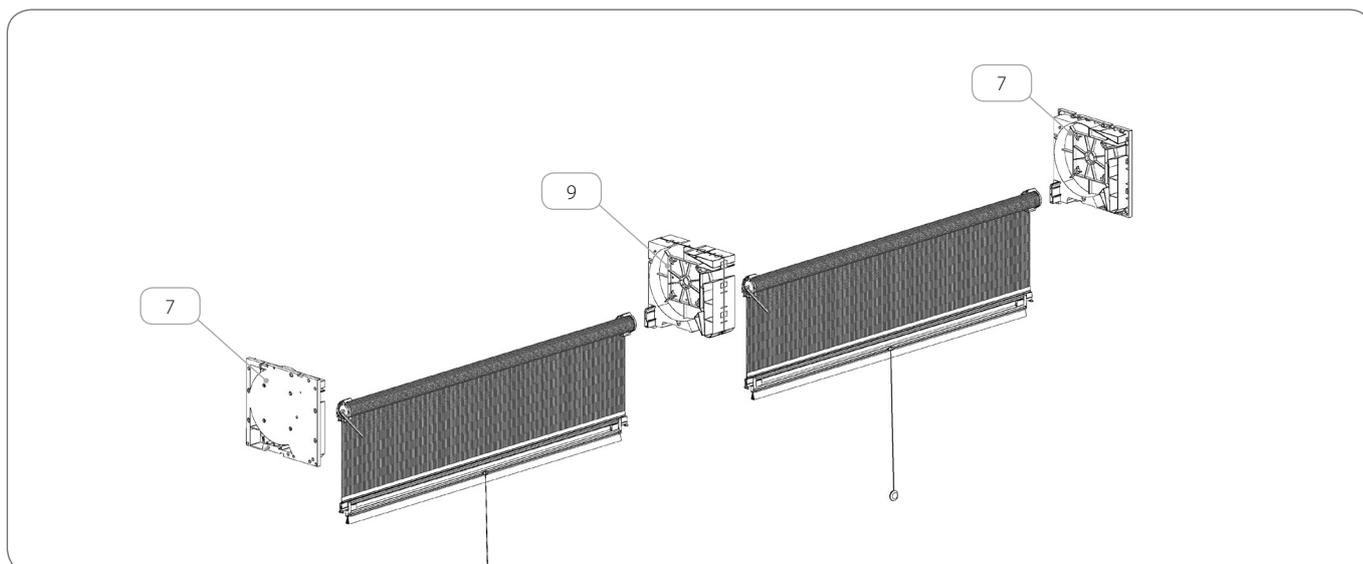
 After the installation, remove the threads securing the brush seal in the **LDSM MKT** endslat.

12.2.3. SKT Nova (AluClick set)

When cutting the round reel with the mosquito net, it is recommended to protect the edge with tape in order to eliminate the problem of the net fraying and seizing aluminium filings.

The spring tensioning operation should be started by placing the tensioning unit in the reel with the insect screen net in such a way that the part used for tensioning is free. Place a 6 mm Allen wrench in the opening on the insect screen side and tension the spring by turning the entire mechanism clockwise.





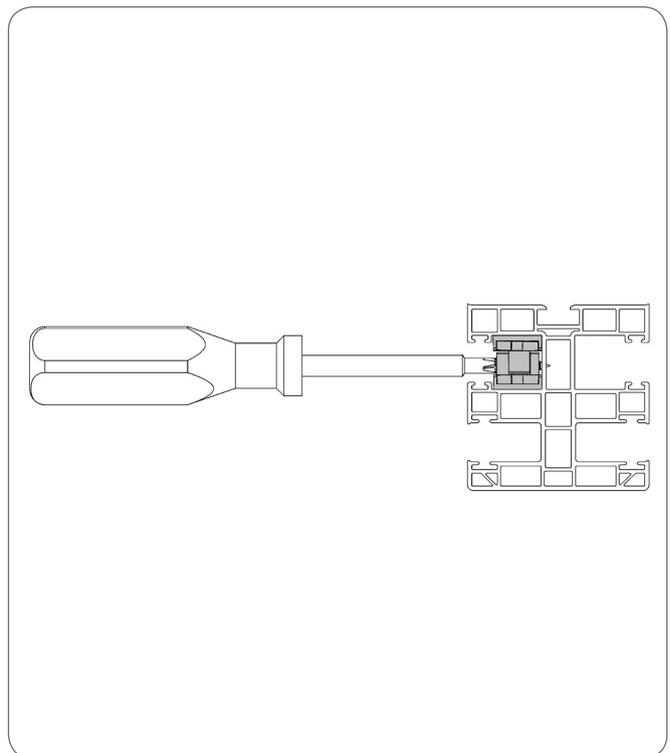
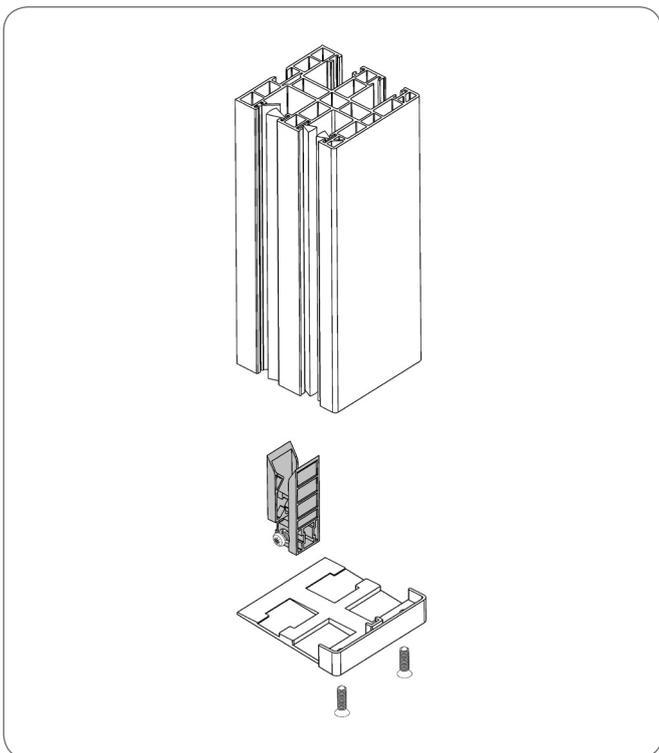
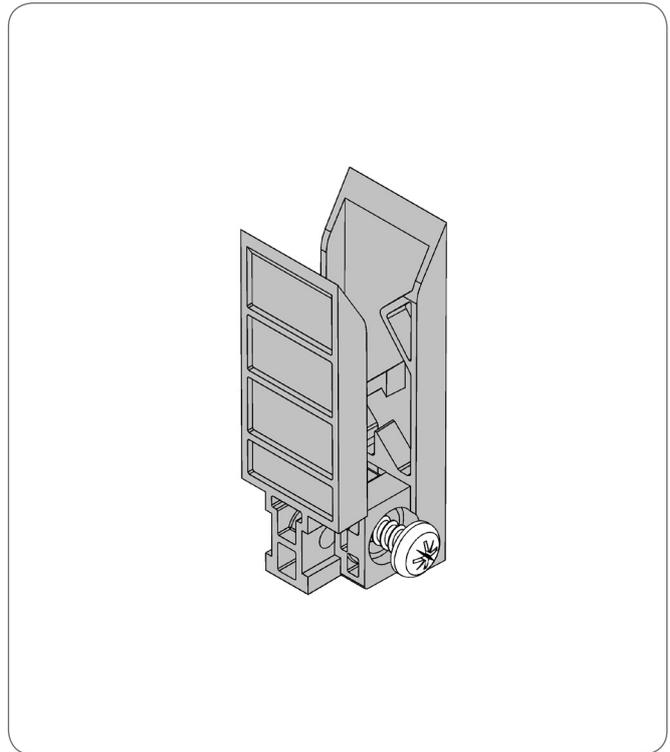
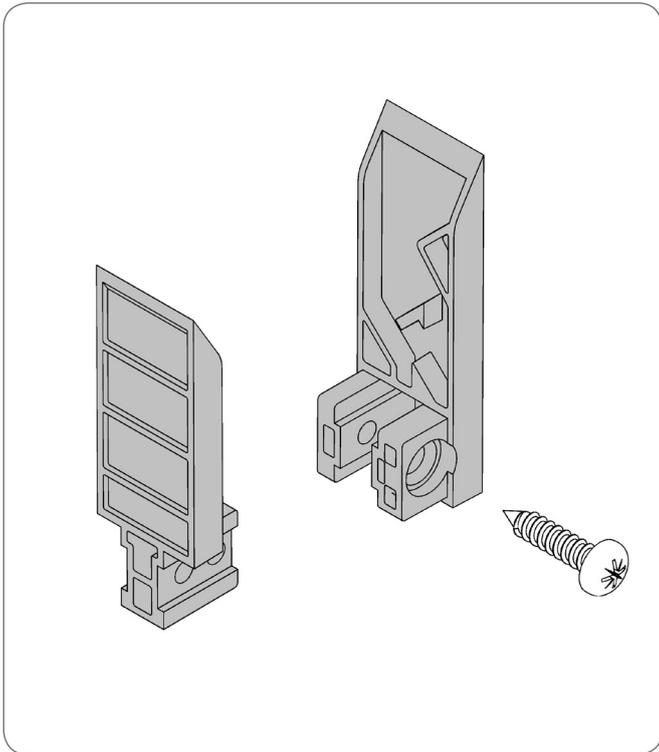
	Name of the component	Catalogue code
1.	Round reel with mosquito-net	RNSMKT
2.	Coupling with spring	
3.	Allen wrench	
4.	Brake	SR52050N
5.	Ball bearing	
6.	Insect screen side	
7.	End cap for shutter box SKT with MKT	PBM/W/230/170, PBM/W/230/210, PBM/W/255/240
8.	Division wall for shutter box SKT with MKT	SPM/W/230/170, SPM/W/230/210, SPM/W/255/240
9.	Compound internal end caps for shutter box SKT with MKT	PBMW/W/230/170, PBMW/W/230/210, PBMW/W/255/240

The number of spring turns for particular ranges of the roller shutter width, depending on the type of insect screen net, is given in the following tables.

WIDTH OF ROLLER SHUTTER [mm]	NUMBER OF SPRING TURNS		
	For net RNS MKT		
	550 - 1100	1101 - 1600	1601 - 2000
RNS MKT - 1,6	3-6	6-9	9-10
RNS MKT - 2,5			

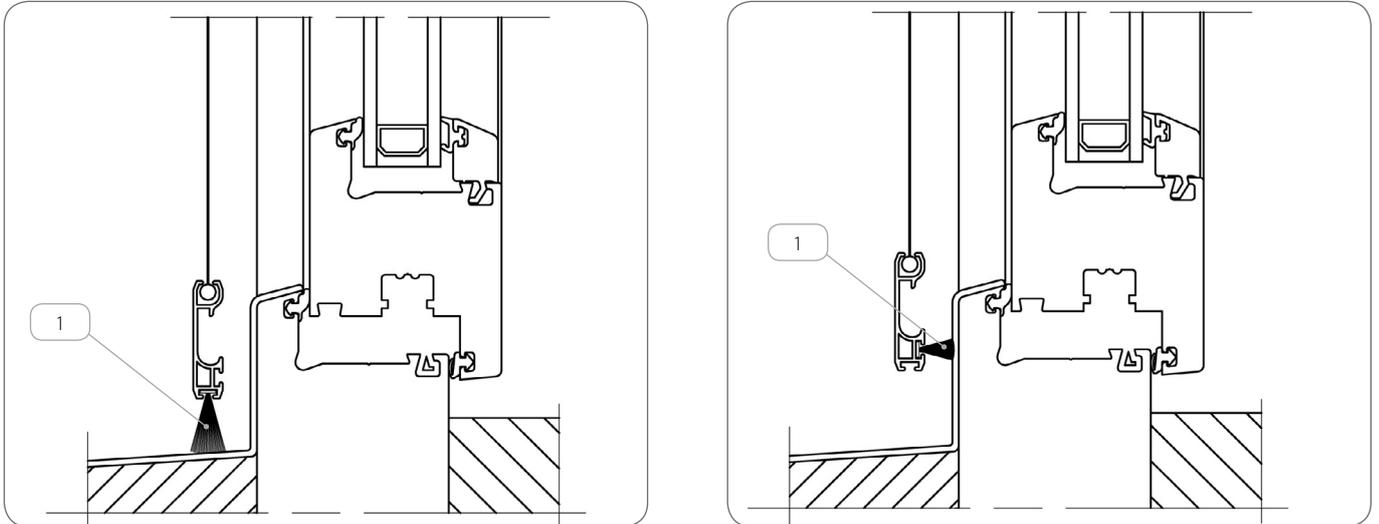
WIDTH OF ROLLER SHUTTER [mm]	NUMBER OF SPRING TURNS		
	For net RNS MKT + Brake SR 52050N		
	650 - 1100	1101 - 1600	1601 - 2000
RNS MKT - 1,6	14 - 15	15 - 17	17 - 20
RNS MKT - 2,5	15 - 16	16 - 19	19 - 21

Insert the cap seat from below to the guide channel chamber. Fasten the guide channel side lock and secure the seat using a screw.



The coupling with a spring, protective pipe and slide bearing placed in the reel with insect screen net should be always mounted to the right end cap (marked with the letter „R“). The same applies to the **SPM/W** division wall (see the above drawing). The **LDSM MKT** endslat makes it possible to seal the space between the roller shutter and the window sill and window frame:

! For side sealing, seal from the **LDSM MKT** set needs to be replaced with **U10/MR seal**.



Name of the component		Catalogue code
1.	Brush seal	U10/MR

! After the installation, remove the threads securing the brush seal in the **LDSM MKT** endslat.



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SKT_Opoterm
We reserve the right to any technical change.
Valid on 2019.12.16