Top mounted shutters

TP1000K®

TECHNICAL CATALOGUE

PORTOS®

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Features and benefits of the TP 1000K® box

- The shutters are available with or without a mosquito net.
- Possibility to use profiles from PA 39, PA 45 in the shutters with a mosquito net, and additionally PA 52 mm in the shutters without a mosquito net.
- Installation on window frames of thickness from 60 to 264 mm (with box enlargement + 62 mm, also HS door)
- Simple, reliable and stable assembly method for various window profiles.
- Additional fixing with side plates. The side plates can be recessed into the side walls of the box to connect the two boxes precisely.
- Additionally, the possibility to install steel reinforcement.
- Installation of the reinforcement at the top of the shutter from the inside underneath the anchors to stiffen the whole structure. Edges of the top steel reinforcement covered.
- Possibility to select the inspection cover: at the bottom or at the front of the box.
- Possibility to make an entry of the tape at the bottom or at the front of the box.
- Possibility to use top box anchoring.
- Possibility of building up the box from the inside and from the outside. The inner and outer covers are smooth or grooved.
- Possibility of installation of concealed laths from the inside and the outside.
- Easy service access to the drive components: tape, motor, crank.
- Simple and easy way to close the mosquito net - click-clack system.
- Mosquito net placed in the cassette. Possibility of easy service disassembly of the mosquito net without the use of screws.
- The mosquito net is between the curtain and the window.
- Possibility to make two (several) shutters in one box with independent or dependent drive.
- Possibility of dividing the mosquito net into 2 parts without the need to divide the shutter curtain.
- Possibility to order PVC or aluminium guides for shutters.
- Bottom end cap inclined at an angle of 5° (is adjusted for external window sills).
- Possibility to install brush seals at the curtain entry from the inside and outside.
- Steel side handles along the entire height of the box, which improves the stability of the shutter.
- Possibility to install end caps of the box side covering the screws from the inside of the room.
- When connecting two boxes, the end caps cover the connection from the inside and from the bottom.
- Easy replacement of entry guides - without screws.
- When using mosquito net division without the curtain division, the shutter curtain does not rub against the guide dividing the mosquito net.
- The concealed lath has an additional bend to facilitate its correct installation in the grooved cover.
- Easy to open the bottom inspection cover with the shutter built up from the inside.
- Easy to change the opening of the inspection cover: at the front or at the bottom without the need to buy additional elements.
- In the outer cover there is a reinforcement for the concealed lath.
- Stable connection of the box components on the locks.
- The inclined lower component of the box allowing the water to drain out of the curtain.
- Possibility of ordering guide end caps to cover the unused mosquito net sockets (the element needed for the mosquito net with division but with the whole curtain).

All photos and drawings contained in the catalogue are for reference only.
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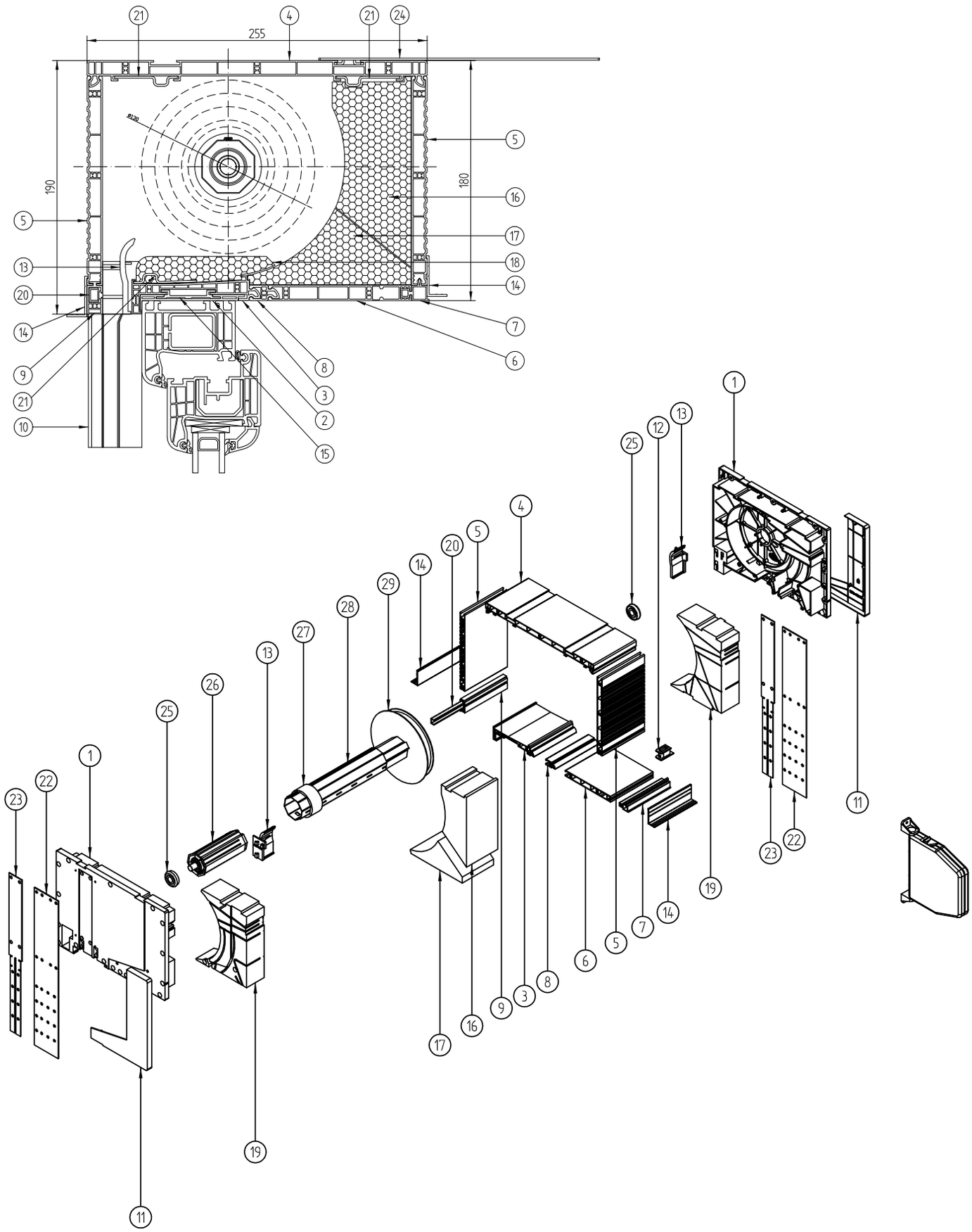
TP1000K®

LEGEND:

BOX 180,220,250 / BOX 220	The size of the box for which the component is designed.
	Component to the box with mosquito net.
1rm 0,2kg / ø40 1pcs 0,3kg	The indicative weight of the component (in kilogrammes).
Max. 6rm	The maximum length of a long component (given in metres)
ABS / PVC	The material used to make a component (e.g. PVC, ABS, etc.)
Pb	It contains no harmful heavy metals such as lead.
	The component with a veneering option.

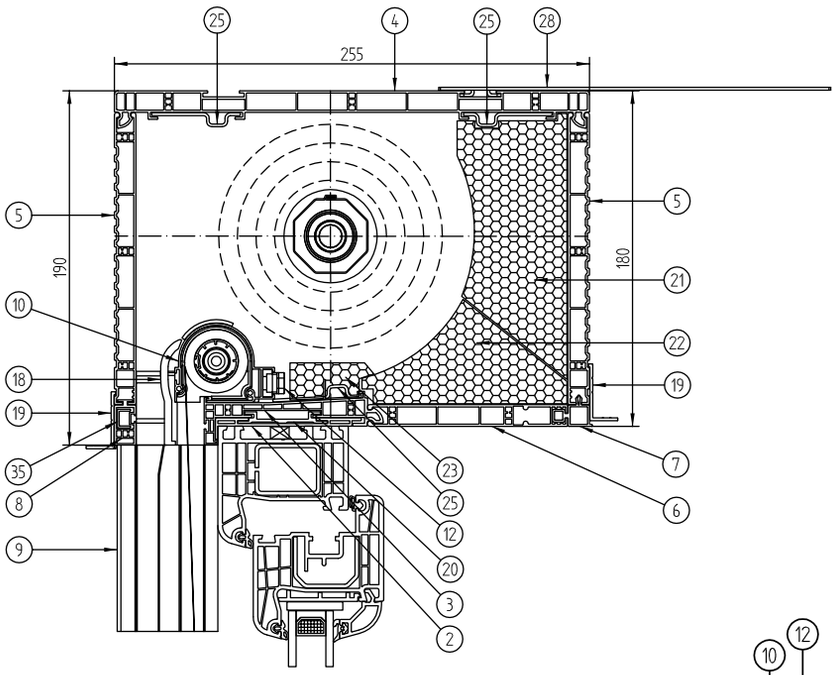
Components of the TP1000K® system
Box 180 - cross section and parts list

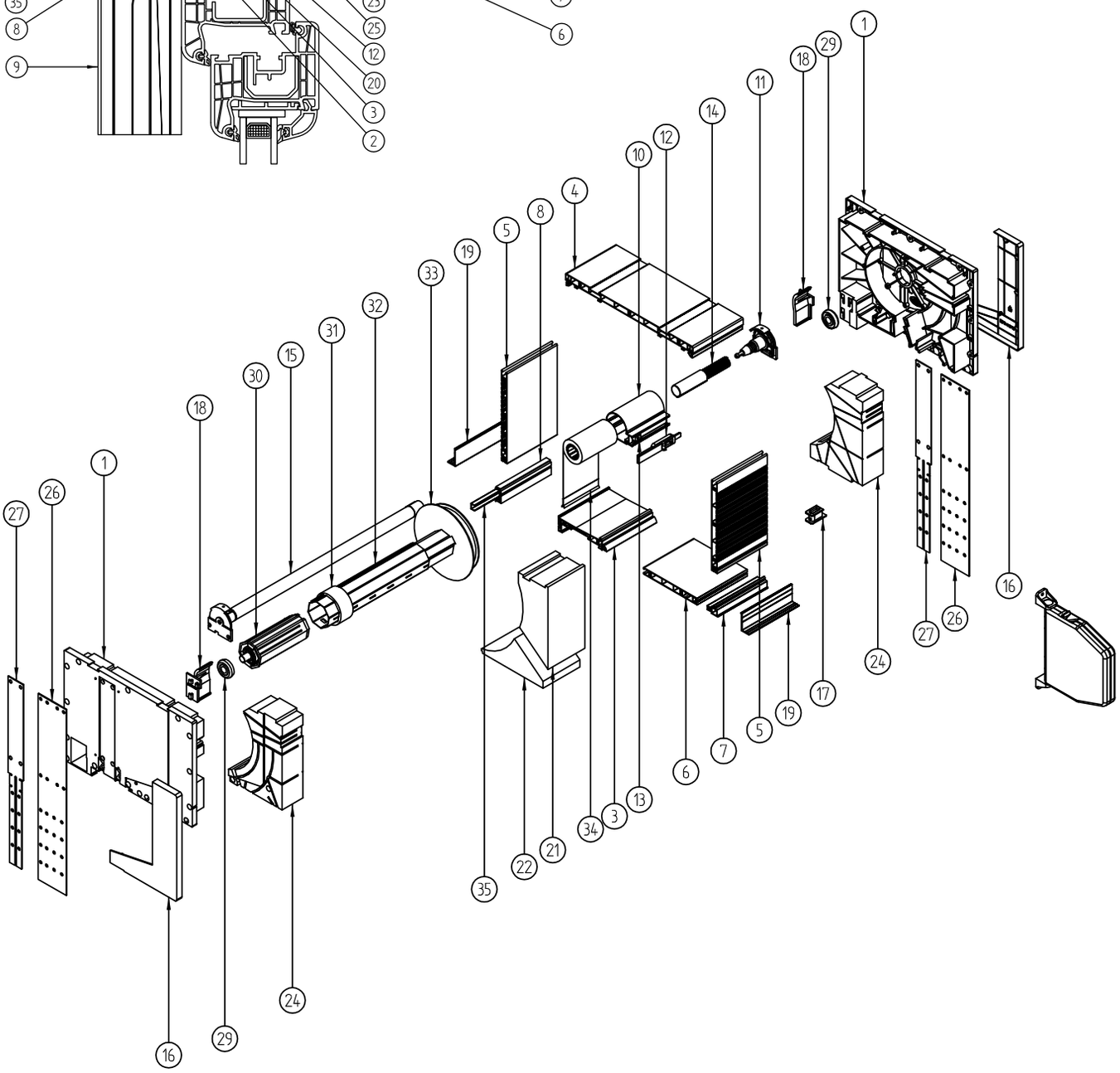


TP1000K® box 180- the cross-section and list of elements

1	NPB-010	End cap for shutter box 180
2	NPS-010	Box adapting profile
3	NPS-020	Bottom shutter box profile with seal
4	NPS-030	Top shutter box profile
5	NPS-040	Side profile for box 180
6	NPS-070	Bottom inspection hatch
7	NPS-080	Connecting profile for box
8	NPS-090	Complement bottom profile for box
9	NPS-100	Bottom side profile with seal
10	NPR-020	Single PCV-guide
11	NPD-010	Side blind of end cap
12	NPD-040	Cord guide
13	NPD-050	Entry guide for profile 37-45 left/right
14	NPL-010	Lath for plaster finishes
15	NPL-020	Aluminum inset for NPS-010 and RN-1 70
16	NPW-015	Side thermal insulation for box 220 graphite
17	NPW-045	Bottom thermal insulation for box 220 graphite
18	NPW-065	Additional thermal insulation
19	NPW-140	Thermal insulation for side cup
20	RA-2-00 7 MM	Thermal insulation for left/right end cap
21	NPT-020	Reinforcment of the shutter box
22	NPT-140	Steel side conector 56mm
23	NPT-120	Steel side conector 30mm
24	NPT-050	Steel munting anchor
25	LO 28/10	Bearing for pvc shutter boxes
26	OBS-40-PCV	Mounting cap fi-40 for pvc shutter box
27	PZ 40/50	40/50 expansion ring
28	SW 40	Octagonal pipe 40 0,6 mm
29	RKZ 71	Wheel of the roller tube

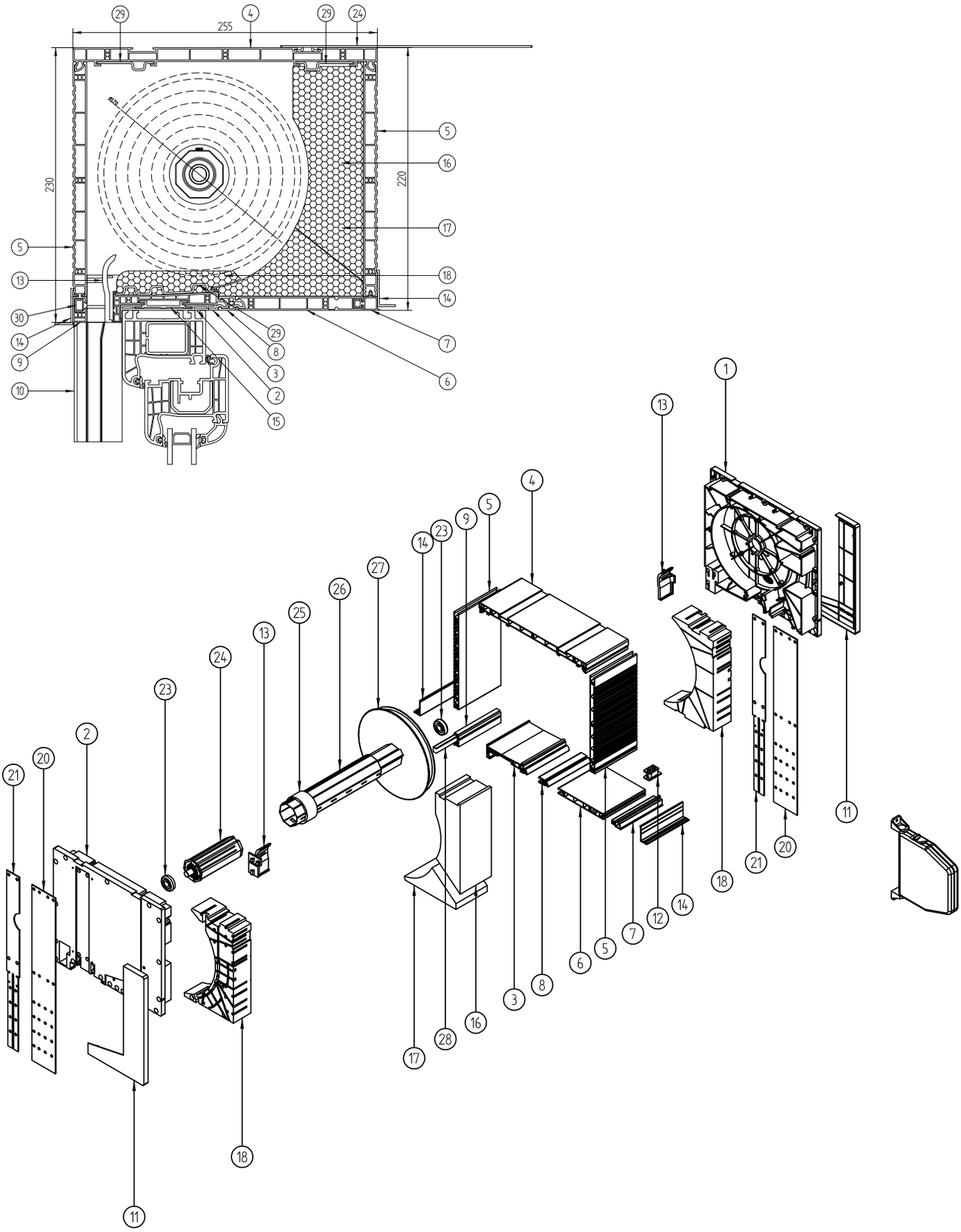
Components of the TP1000K® system
Box 180 with mosquito net - cross section and parts list





TP1000K® shutter box 180 with mosquito net - cross-section and list of components

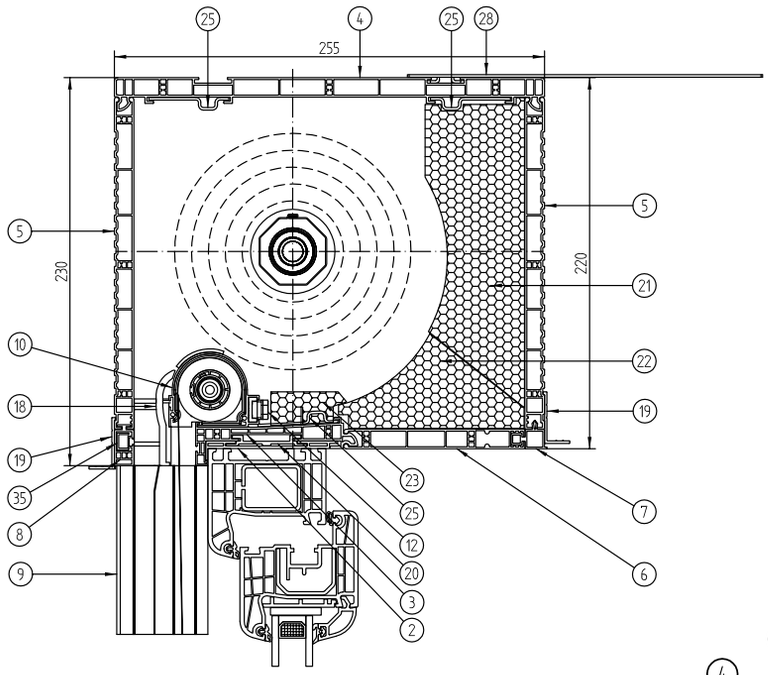
1	NPB-110	End cap of the shutter box 180 with mosquito net
2	NPS-010	Box adapting profile
3	NPS-020	Bottom shutter box profile with seal
4	NPS-030	Top shutter box profile
5	NPS-040	Side profile of the shutter box 180
6	NPS-070	Bottom inspection hatch
7	NPS-080	Connecting profile for box
8	NPS-100	Bottom side profile with seal
9	NPR-010	Double guide for mosquito net
10	M-RN-090	Small cassette for mosquito net
11	M-RN-080	The side of the cassette with mounting cap for spring pipe for small casette
12	M-RN-050	Cassette's latch
13	M-RN-060	Spring for cassette's latch
14	ABS-CZ	Slowing system for mosquito-net
15	MZN-091	Spring 350 of the mosquito net for top mounted shutters (small cassette)
16	NPD-010	End cap of the shutter box 180
17	NPD-040	Cord guide
18	NPD-050	Entry guide for profile 37-45 left/right
19	NPL-010	Lath for plaster finishes
20	NPL-020	Aluminum inset for NPS-010 and RN-1 70
21	NPW-015	Additional thermal insulation for shutter box 180
22	NPW-055	Bottom thermal insulation for box with mosquito net
23	NPW-075	Additional thermal insulation for box with mosquto net
24	NPW-150	Thermal insulation for side cup
25	NPT-020	Reinforcement steel top - internal or external
26	NPT-140	Steel side conector 56mm
27	NPT-120	Steel side conector 30mm
28	NPT-050	Steel munting anchor
29	LO 28/10	Bearing for PCV shutter boxes
30	OBS-40-PCV	Mounting cap fi-40 for PCV shutter box
31	PZ 40/50	40/50 expansion ring
32	SW 40	Octagonal pipe 40 0,6 mm
33	RKZ 70	Wheel of the roller tube
34	MOS-XX	Mosquito net
35	RA-2-00 7 MM	Small reinforcement of cover - raw 7mm

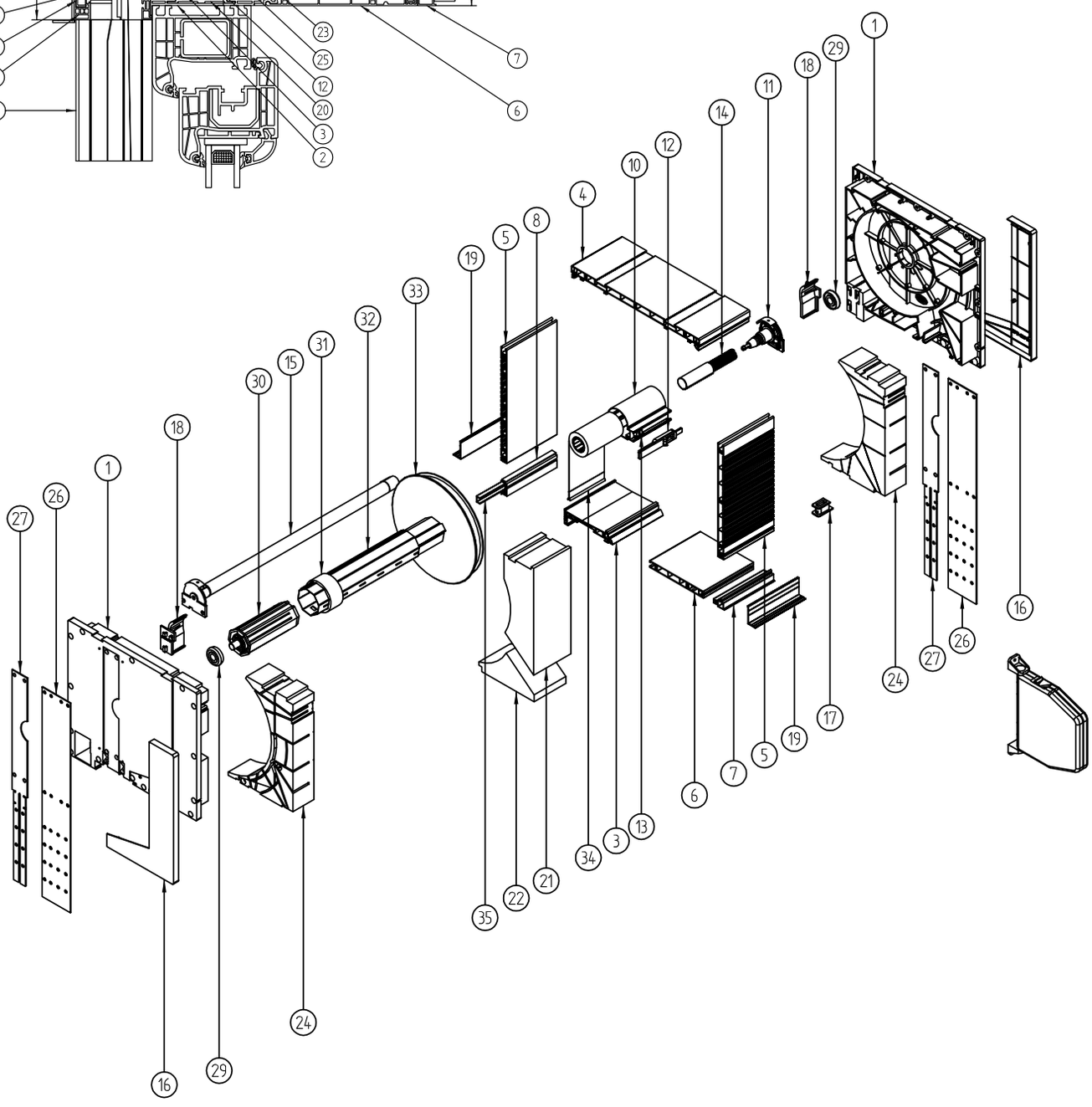

255
230
220

TP1000K® shutter box 220
- cross-section and list of components

1	NPB-020	End cap for shutter box 220
2	NPS-010	Box adapting profile
3	NPS-020	Bottom shutter box profile with seal
4	NPS-030	Top shutter box profile
5	NPS-051	Side profile for box 220
6	NPS-070	Bottom inspection hatch
7	NPS-080	Connecting profile for box
8	NPS-090	Complement bottom profile
9	NPS-100	Bottom side profile
10	NPR-020	Double guide
11	NPD-020	Side blind of end cap
12	NPD-040	Cord guide
13	NPD-050	Entry guide for profile 37-45 left/right
14	NPL-010	Lath for plaster finishes
15	NPL-020	Aluminum inset for NPS-010 and RN-1 70
16	NPW-025	Side thermal insulation for box 220 graphite
17	NPW-045	Bottom thermal insulation for box 220 graphite
18	NPW-090	Thermal insulation for side cup
19	NPT-020	Reinforcement steel top - internal or external
20	NPT-040	Steel side conector 56mm
21	NPT-030	Steel side conector 30mm
22	NPT-050	Steel mounting anchor
23	LO 28/10	Bearing for PVC shutter boxes
24	OBS-40-PCV	Mounting cap fi-40 for PVC shutter box
25	PZ 40/50	40/50 expansion ring
26	SW 40	Octagonal pipe 40 0,6 mm
27	RKZ 72	Wheel of the roller tube for box 200/220/250
28	RA-2-00 7 MM	Small reinforcement of cover - raw 7mm
29	NPT-010	Steel reinforcement of the shutter box

Components of the TP1000K® system
Box 220 with mosquito net - cross section and parts list

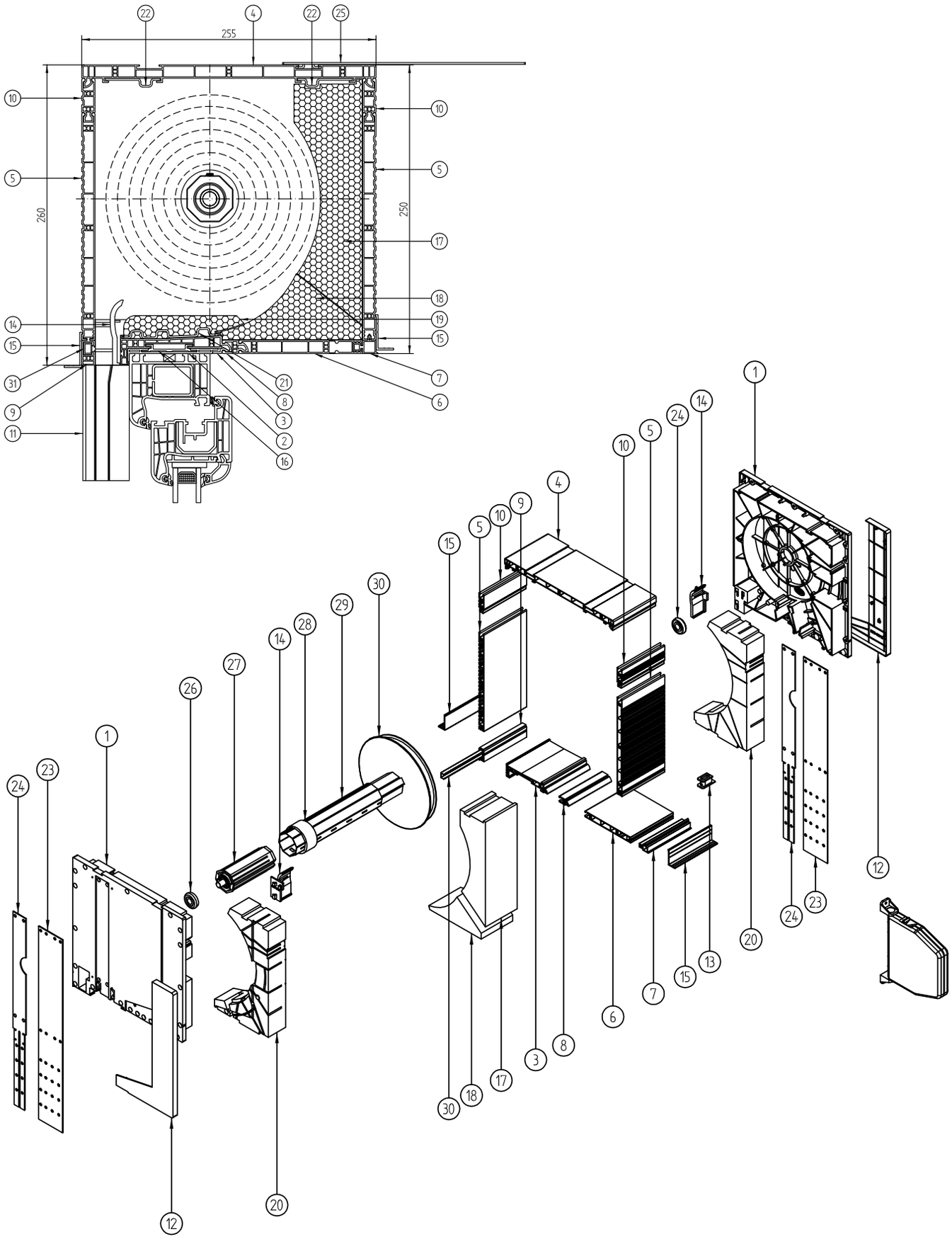




TP1000K® shutter box 220 with mosquito net - cross-section and list of components

1	NPB-120	End cap of the shutter box 220 with mosquito net
2	NPS-010	Box adapting profile
3	NPS-020	Bottom shutter box profile with seal
4	NPS-030	Top shutter box profile
5	NPS-051	Side profile for box 220
6	NPS-070	Bottom inspection hatch
7	NPS-080	Connecting profile for box
8	NPS-100	Bottom side profile
9	NPR-010	Double guide for mosquito-net
10	M-RN-011	Cassette for mosquito net
11	M-RN-021	The side of the cassette with mounting cap for spring pipe
12	M-RN-050	Cassette's latch
13	M-RN-060	Spring for cassette's latch
14	ABS-CZ	Slowing system for mosquito-net
15	MZN-051	Spring of mosquito net 350mm for top mounted roller shutter
16	NPD-020	Side blind of end cap
17	NPD-040	Cord guide
18	NPD-050	Entry guide for profile 37-45 left/right
19	NPL-010	Lath for plaster finishes
20	NPL-020	Aluminum inset for NPS-010 and RN-1 70
21	NPW-025	Side thermal insulation for box 220 graphite
22	NPW-055	Side thermal insulation for mosqito-net box 220 graphite
23	NPW-075	Additional thermal insulation for mosquito-net box 220 graphite
24	NPW-100	Thermal insulation for side cup
25	NPT-020	Bottom steel reinforcement for mosquito-net box 220
26	NPT-040	Steel side conector 56mm
27	NPT-030	Steel side conector 30mm
28	NPT-050	Steel mounting anchor
29	LO 28/10	Bearing for PVC shutter boxes
30	OBS-40-PCV	Mounting cap fi-40 for PVC shutter box
31	PZ 40/50	40/50 expansion ring
32	SW 40	Octagonal pipe 40 0,6 mm
33	RKZ 72	Wheel of the roller tube for box 200/220/250
34	MOS-XX	Mosquito net
35	RA-2-00 7 MM	Small reinforcement of cover - raw 7mm

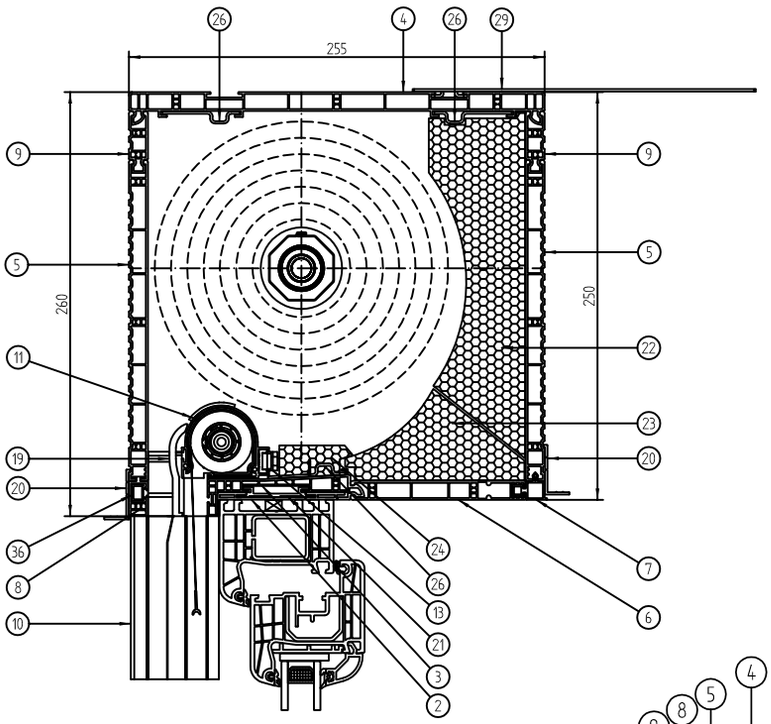
Components of the TP1000K® system
Box 250 - cross-section and parts list

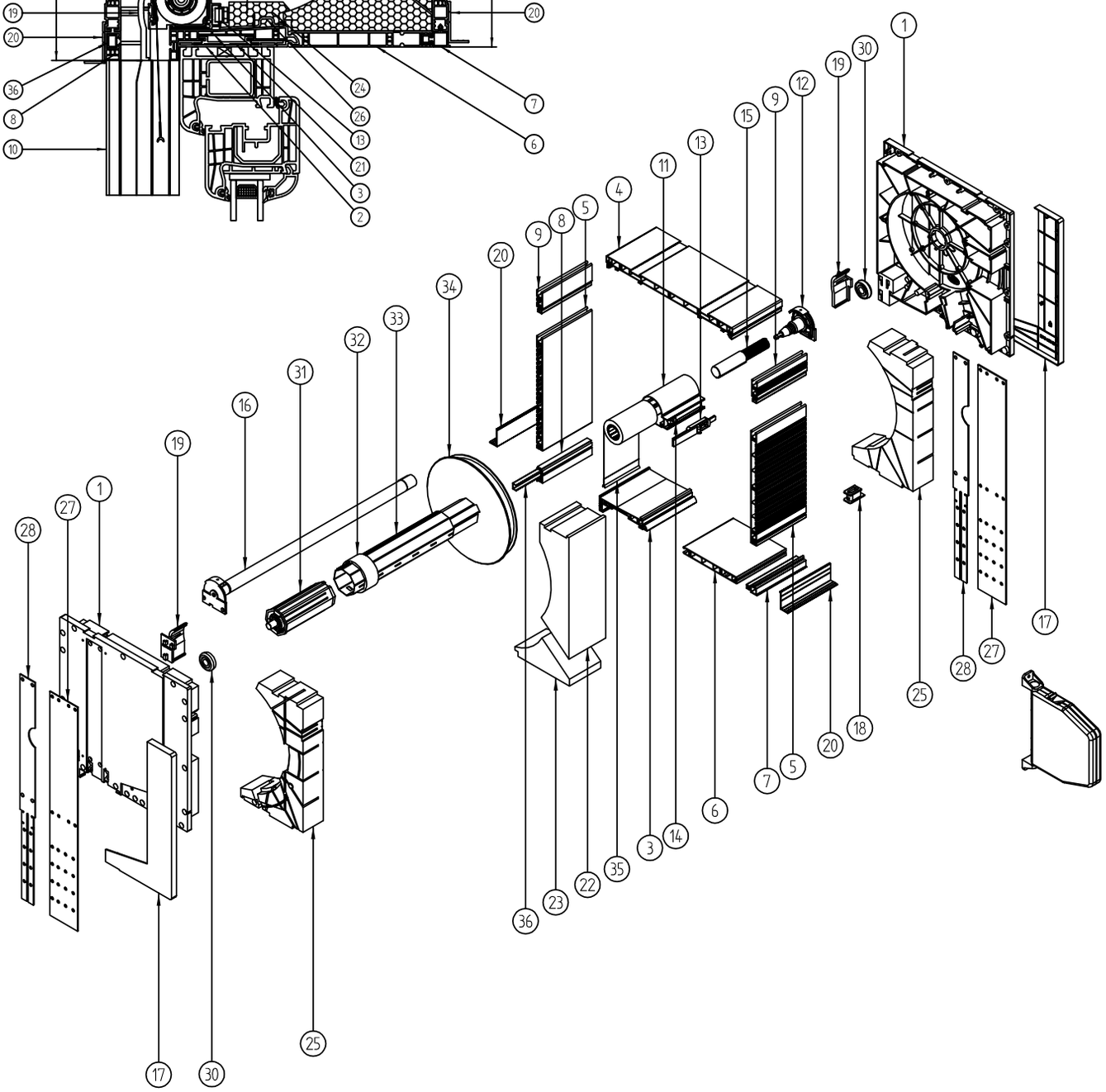


TP1000K® shutter box 250
- cross-section and list of components

1	NPB-030	End cap of the shutter box 250 with mosquito net
2	NPS-010	Box adapting profile
3	NPS-020	Bottom shutter box profile with seal
4	NPS-030	Top shutter box profile
5	NPS-051	Side profile for box 250
6	NPS-070	Bottom inspection hatch
7	NPS-080	Connecting profile for box
8	NPS-090	Complementary bottom shutter box profile
9	NPS-100	Bottom side profile
10	NPS-130	Complementary profile for vertical hatch
11	NPR-020	Double guide
12	NPD-030	Side blind of end cap
13	NPD-040	Cord guide
14	NPD-050	Entry guide for profile 37-45 left/right
15	NPL-010	Lath for plaster finishes
16	NPL-020	Aluminum inset for NPS-010 and RN-1 70
17	NPW-035	Side thermal insulation for box 220 graphite
18	NPW-045	Side thermal insulation for box 220 graphite
19	NPW-065	Additional thermal insulation
20	NPW-160	Thermal insulation for side cup
21	NPT-010	Bottom steel reinforcement
22	NPT-020	Reinforcement steel top - internal or external
23	NPT-150	Steel side conector 56mm
24	NPT-130	Steel side conector 30mm
25	NPT-050	Steel munting anchor
26	LO 28/10	Bearing for PVC shutter boxes
27	OBS-40-PCV	Mounting cap fi-40 for PVC shutter box
28	PZ 40/50	40/50 expansion ring
29	SW 40	Octagonal pipe 40 0,6 mm
30	RKZ 72	Wheel of the roller tube for box 200/220/250
31	RA-2-00 7 MM	Small reinforcement of cover - raw 7mm

Components of the TP1000K® system
Box 250 with mosquito net - cross section and parts list

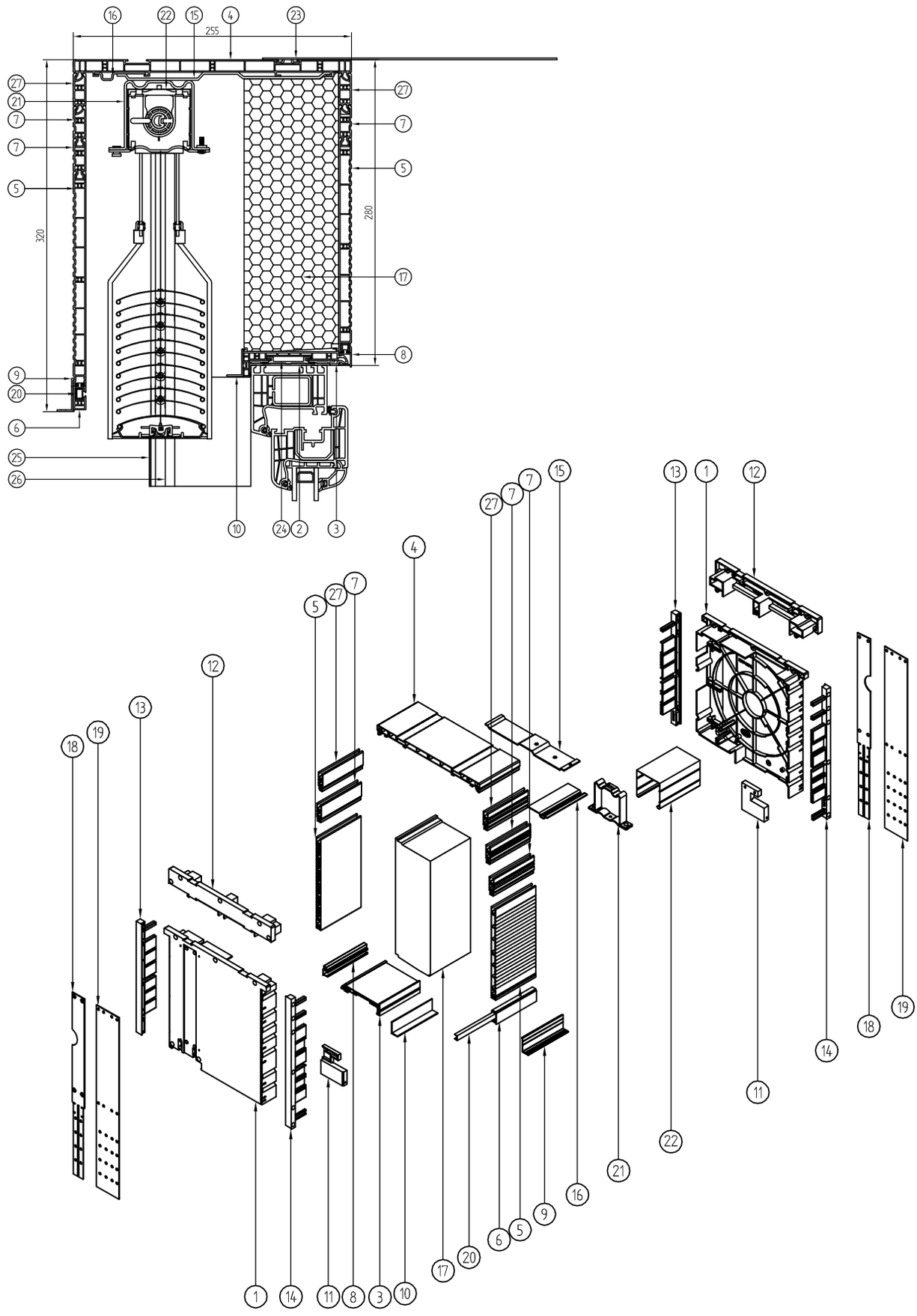




TP1000K® shutter box 250 with mosquito net - cross-section and list of components

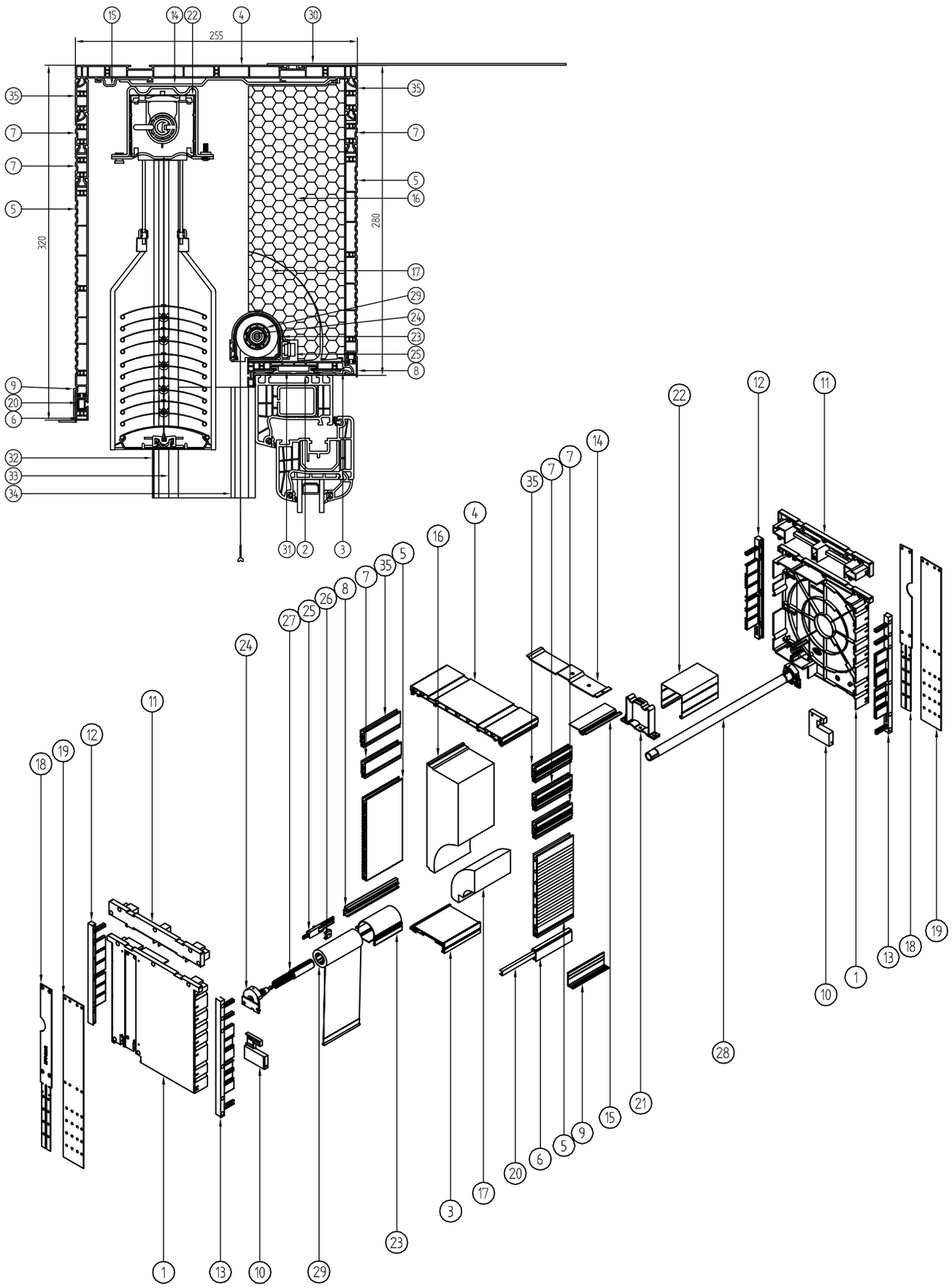
1	NPB-130	End cap of the shutter box 250 with mosquito net
2	NPS-010	Box adapting profile
3	NPS-020	Bottom shutter box profile with seal
4	NPS-030	Top shutter box profile
5	NPS-051	Side profile for box 250
6	NPS-070	Bottom inspection hatch
7	NPS-080	Connecting profile for box
8	NPS-100	Bottom side profile
9	NPS-130	Complementary profile for vertical hatch
10	NPR-010	Double guide for mosquito-net
11	M-RN-011	Cassette for mosquito net
12	M-RN-021	The side of the cassette with mounting cap for spring pipe
13	M-RN-050	Cassette's latch
14	M-RN-060	Spring for cassette's latch
15	ABS-CZ	Slowing system for mosquito-net
16	MZN-051	The spring of the mosquito net 350 mm for top mounted roller shutter
17	NPD-030	Side blind of end cap
18	NPD-040	Cord guide
19	NPD-050	Entry guide for profile 37-45 left/right
20	NPL-010	Lath for plaster finishes
21	NPL-020	Aluminum inset for NPS-010 and RN-1 70
22	NPW-035	Thermal insulation for box 250
23	NPW-055	Bottom thermal insulation for box with mosquito net
24	NPW-075	Additional thermal insulation for box with mosquito net
25	NPW-170	Thermal insulation of the side cap for box with mosquito net
26	NPT-020	Reinforcement steel top - internal or external
27	NPT-150	Steel side conector 56mm
28	NPT-130	Steel side conector 30mm
29	NPT-050	Steel munting anchor
30	LO 28/10	Bearing for pvc shutter boxes
31	OBS-40-PCV	Mounting cap fi-40 for pvc shutter box
32	PZ 40/50	40/50 expansion ring
33	SW 40	Octagonal pipe 40 0,6 mm
34	RKZ 72	Wheel of the roller tube
35	MOS-XX	Mosquito net
36	RA-2-00 7 MM	Small reinforcement of cover - raw 7mm

Components of the TP1000K®-ZF system
Box with external blind - cross-section and parts list



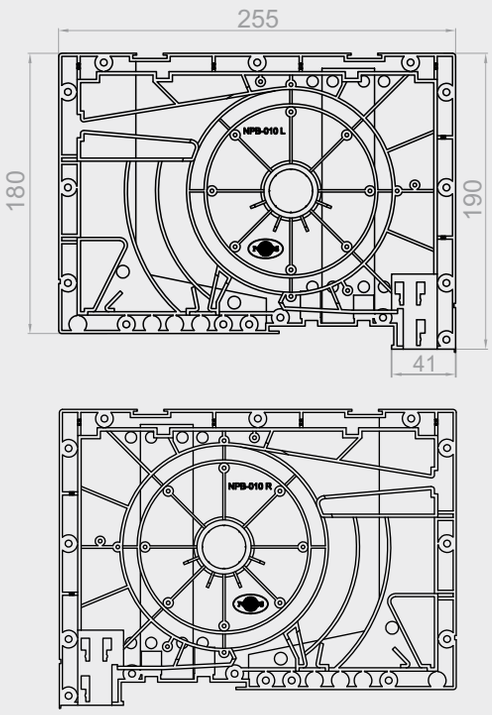
TP1000K®-ZF box with external blind - cross section and parts list

1	F-NPF-030	Side of the box 250 for external blind
2	NPS-010	Universal adaptation profile
3	NPS-020	Box profile bottom
4	NPS-030	Box profile top
5	NPS-051	Profile of the box 220 side
6	NPS-100	Side profile bottom
7	NPS-130	Additional profile of the vertical cover
8	F-NPS-140	Box profile box connector for external blind
9	NPL-010	Concealed lath
10	LT	Concealed lath
11	F-NPD-280	Side lowering insert
12	F-NPB-070	Raising of the box side
13	F-NPD-270	End cap for the side inner profile of the external blind box
14	F-NPD-260	End cap for the side outer profile of the external blind box
15	F-NPT-280	Main holder for external blind
16	NPT-020	Box reinforcement
17	F-NPW-275	Styrofoam insert
18	NPT-130	Steel side handle 30 mm for box 250
19	NPT-150	Steel side handle 56 mm for box 250
20	RA-2-00 7 MM	Small reinforcement of cover - raw 7mm
21	F-USG	Top rail handle
22	F-RN	Head rail
23	NPT-050	Steel mounting anchor
24	NPL-020	Aluminium insert
25	F-FBR-010	Guide adapter for external blind
26	F-PP-20	Single guide for external blind
27	NPS-120	Broadenning bottom profile of the box


255
320
280

TP1000K®-ZF box with external blind with mosquito net - cross-section and parts list

1	F-NPF-030	Side of the box 250 for external blind
2	NPS-010	Universal adaptation profile
3	NPS-020	Box profile bottom
4	NPS-030	Box profile top
5	NPS-051	Profile of the box 220 side
6	NPS-100	Side profile bottom
7	NPS-130	Additional profile of the vertical cover
8	F-NPS-140	Box profile box connector for external blind
9	NPL-010	Concealed lath
10	F-NPD-280	Side lowering insert
11	NPB-070	Raising of the box side
12	F-NPD-270	End cap for the side inner profile of the external blind box
13	F-NPD-260	End cap for the side outer profile of the external blind box
14	F-NPT-280	Main holder for external blind
15	NPT-020	Box reinforcement
16	F-NPW-295	Styrofoam insert
17	F-NPW-305	Additional styrofoam insert
18	NPT-130	Steel side handle 30 mm for box 250
19	NPT-150	Steel side handle 56 mm for box 250
20	RA-2-00 7 MM	Small reinforcement of cover - raw 7mm
21	F-USG	Top rail handle
22	F-RN	Head rail
23	M-RN-011	Mosquito net cassette
24	M-RN-021	Cassette side with spring pipe mounting
25	M-RN-050	Latch of the cassette
26	M-RN-060	Latch blockade
27	ABS-CZ	Slowing system for mosquito net
28	MZN-051	Spring of the mosquito net 350 mm for external blind
29	MOS-XX	Mosquito net with the 23.5mm pipe
30	NPT-050	Steel mounting anchor
31	NPL-020	Aluminium insert
32	F-FBR-010	Guide adapter for external blind
33	F-PP-20	Single guide for external blind
34	F-FBR-050	Guide for mosquito net
35	NPS-120	Broadenning bottom profile of the box



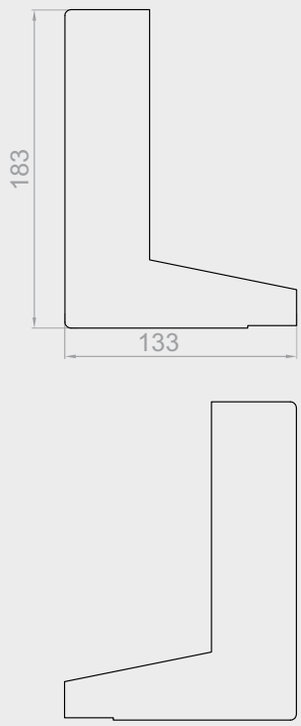
NPB-010 L

Left end cap for shutter box 180

NPB-010 P

Right end cap for shutter box 180

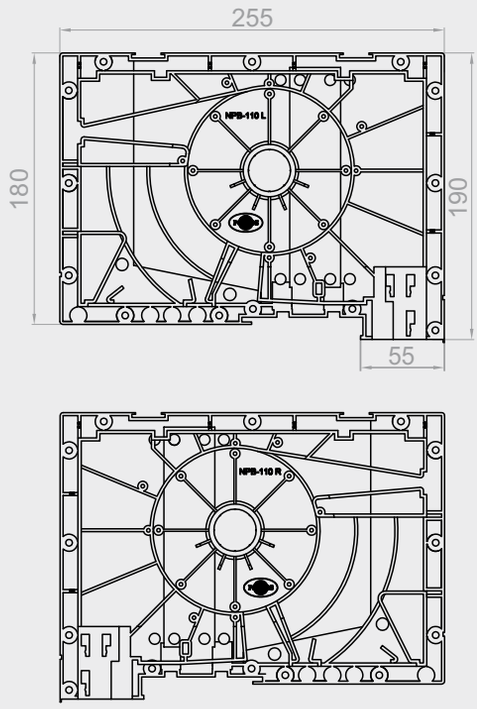
BOX 180
ABS
1pcs 0,30kg



NPD-010 L/P

Side blind of left and right end cap for box 180

BOX 180
ABS
Set 0,04kg



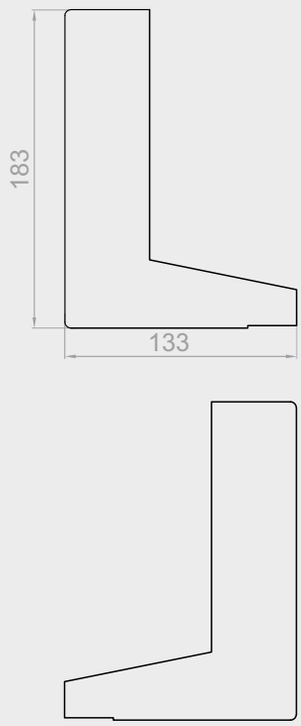
NPB-110 L

Left end cap for shutter box 180 with mosquito net

NPB-110 P

Right end cap for shutter box 180 with mosquito net

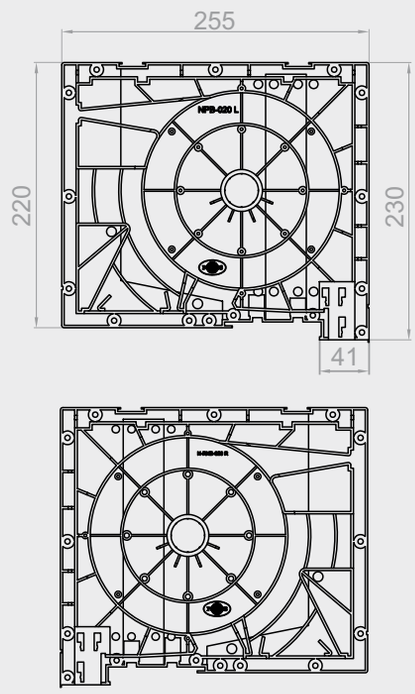
BOX 180
ABS
1pcs 0,32kg



NPD-010 L/P

Side blind of left and right end cap for box 180 with mosquito net

BOX 180
ABS
Set 0,04kg



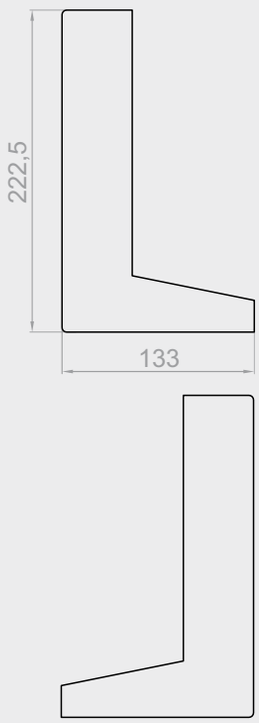
NPB-020 L

Left end cap for shutter box 220

NPB-020 P

Right end cap for shutter box 220

BOX 220
ABS
1pcs 0,34kg

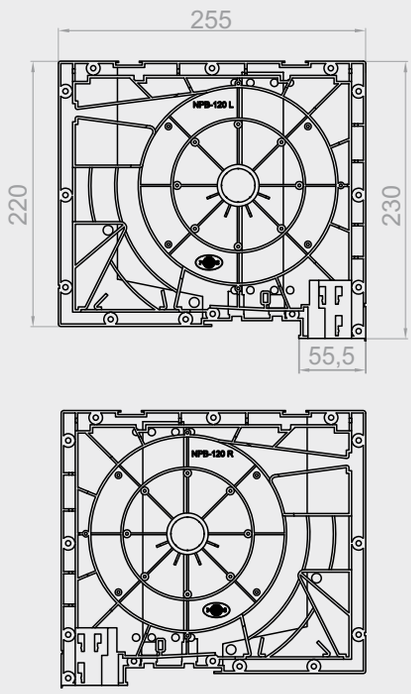


NPD-020 L/P

Side blind of left and right end cap for box 220

Available only in boxes without enlargement

BOX 220
ABS
Set 0,05kg



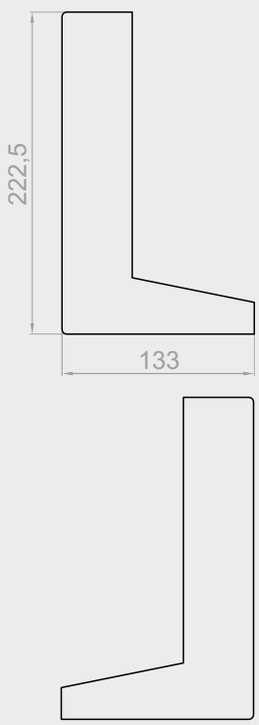
NPB-120 L

Left end cap for shutter box 220 with mosquito net

NPB-120 P

Right end cap for shutter box 220 with mosquito net

BOX 220
ABS
1pcs 0,345kg

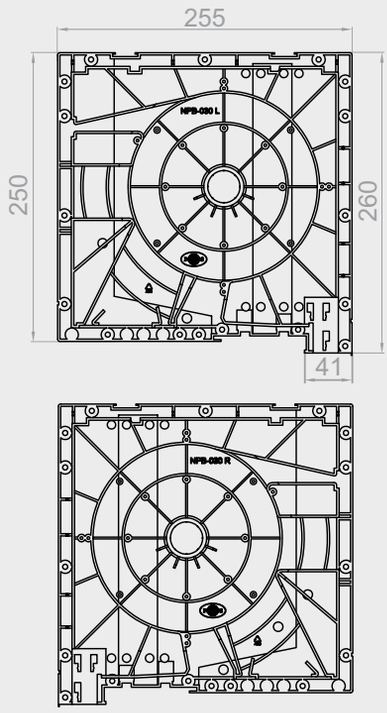


NPD-020 L/P

Side blind of left and right end cap for box 220 with mosquito net

Available only in boxes without enlargement

BOX 220
ABS
Set 0,05kg



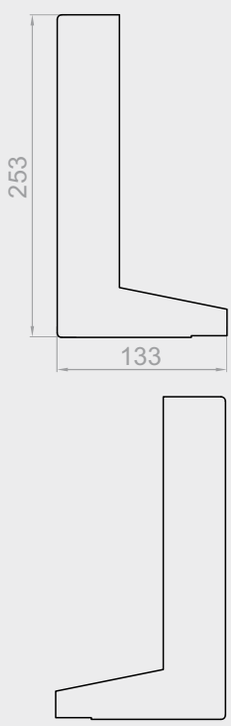
NPB-030 L

Left end cap for shutter box 250

NPB-030 P

Right end cap for shutter box 250

BOX 250
ABS
1pcs 0,39kg

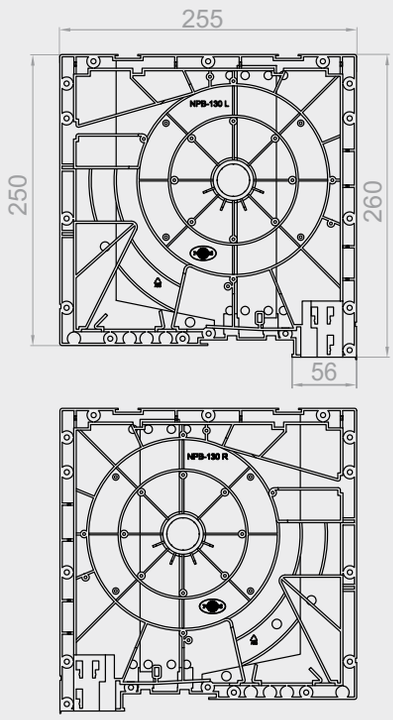


NPD-030 L/P

Side blind of left and right end cap for box 250

Available only in boxes without enlargement

BOX 250
ABS
Set 0,08kg



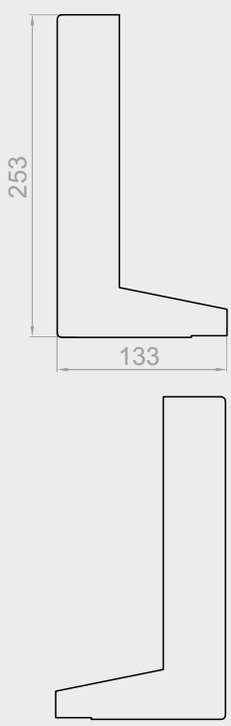
NPB-130 L

Left end cap for shutter box 250 with mosquito net

NPB-130 P

Right end cap for shutter box 250 with mosquito net

BOX 250 | ABS | 1pcs 0,39kg

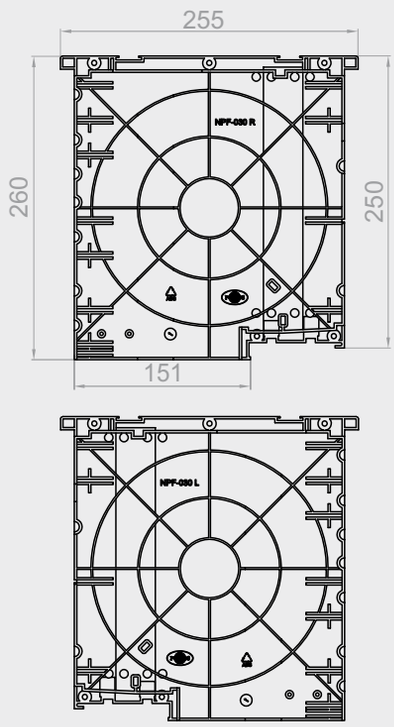


NPD-030 L/P

Side blind of left and right end cap for box 250 with mosquito net

Available only in boxes without enlargement

BOX 250 | ABS | Set 0,06kg

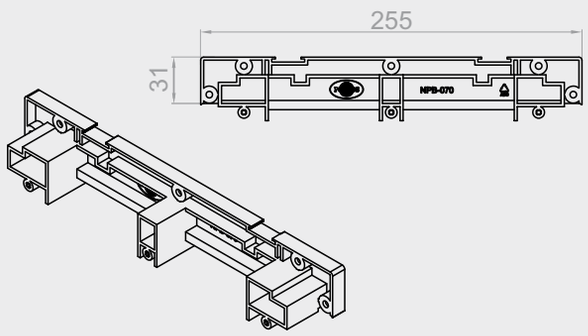


F-NPF-030 L

Side of the box 250 for external blind left.

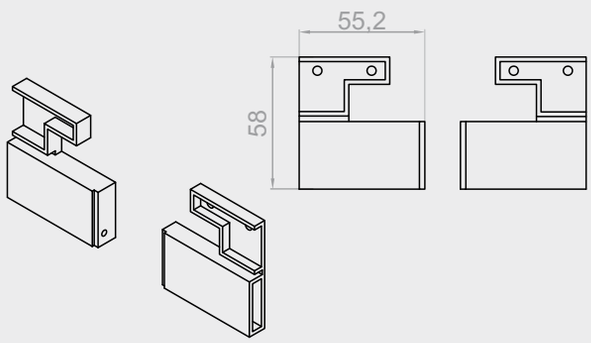
F-NPF-030 P

Side of the box 250 for external blind right.



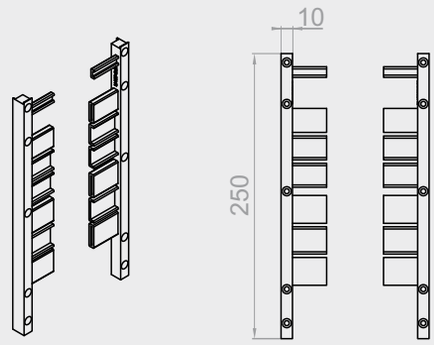
NPB-070

Raising of the box side for external blind.



F-NPD-280 L/P

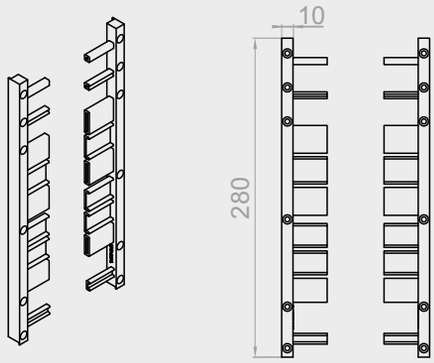
Side lowering insert for external blind.



F-NPD 250

End cap for the side outer profile of the external blind box 250mm.

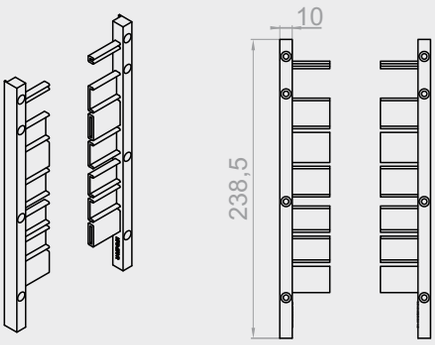
BOX 250 | ABS | 1pcs 0,034kg



F-NPD 260

End cap for the side outer profile of the external blind box 280mm.

BOX 250 | ABS | 1pcs 0,036kg



F-NPD 270

End cap for the side inner profile of the external blind box.

BOX 250 | ABS | 1pcs 0,03kg

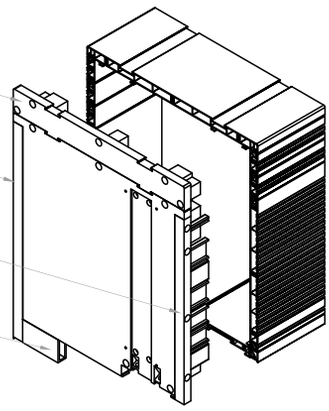
View of the 250 box side for the external blind with raising, lowering and end caps of the box side profiles.

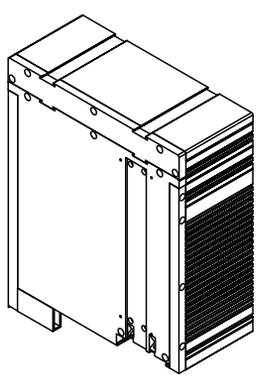
NPB-070 - Side raising for external blind.

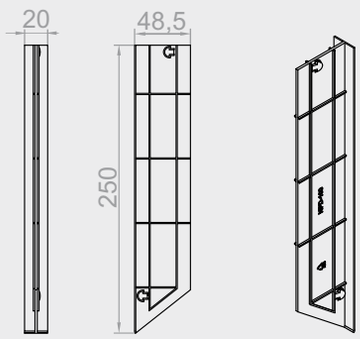
F-NPD-260 - End cap for the side outer profile of the external blind box 280mm.

F-NPD-270 - End cap for the side inner profile of the external blind box.

F-NPD-280 - Side lowering insert for external blind.



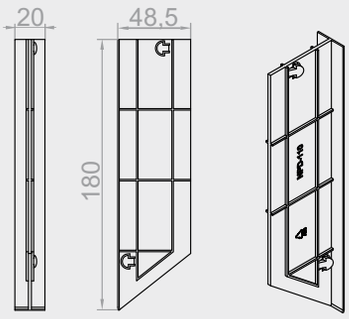




NPD-100

Double side blind for box 250 part 1

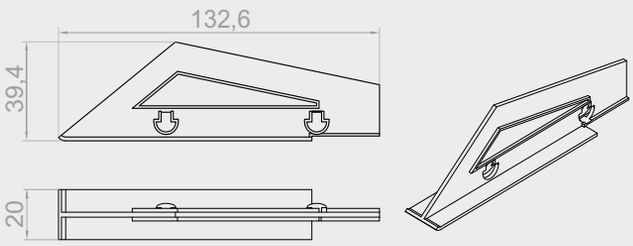
BOX 250
ABS
1pcs 0,03kg



NPD-110

Double side blind for box 180 part 1

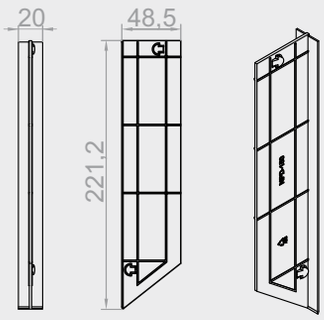
BOX 180
ABS
1pcs 0,03kg



NPD-120

Double side blind for box 180, 250 part 2

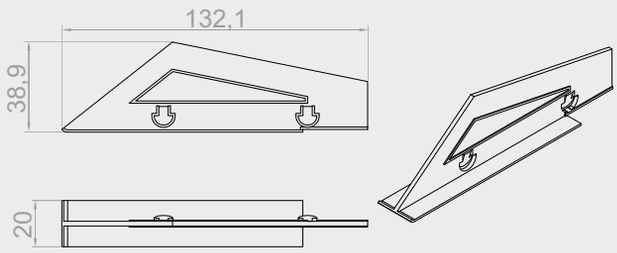
BOX 180,250
ABS
1pcs 0,01kg



NPD-150

Double side blind for box 220 part 1

BOX 220
ABS
1pcs 0,03kg

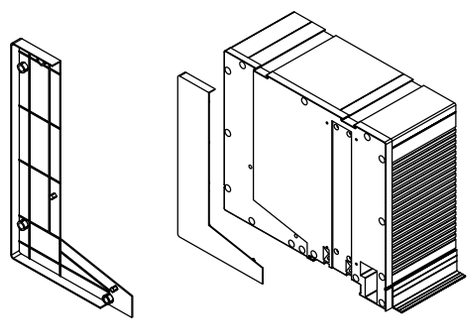


NPD-160

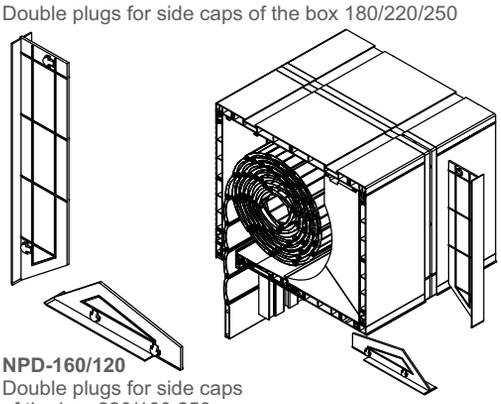
Double side blind for box 220 part 2

BOX 220 | ABS | 1pcs 0,01kg

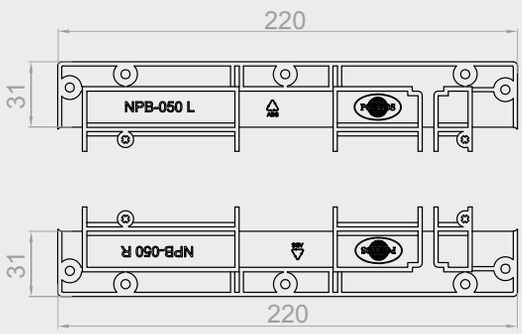
NPD-010/020/030 L/P.
Plug of the side cap for box 180/220/250 (right/left)



NPD-110/150/100
Double plugs for side caps of the box 180/220/250

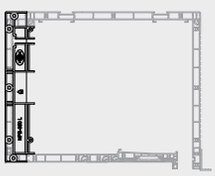


NPD-160/120
Double plugs for side caps
of the box 220/180,250

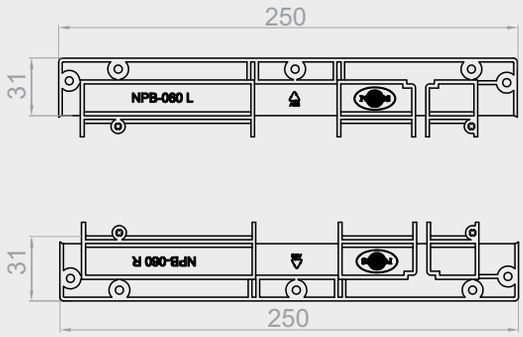


NPB-050 L/P

Extension of the side cap in box 220 - left and right

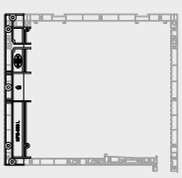


BOX 220 | ABS | Set 0,12kg



NPB-060 L/P

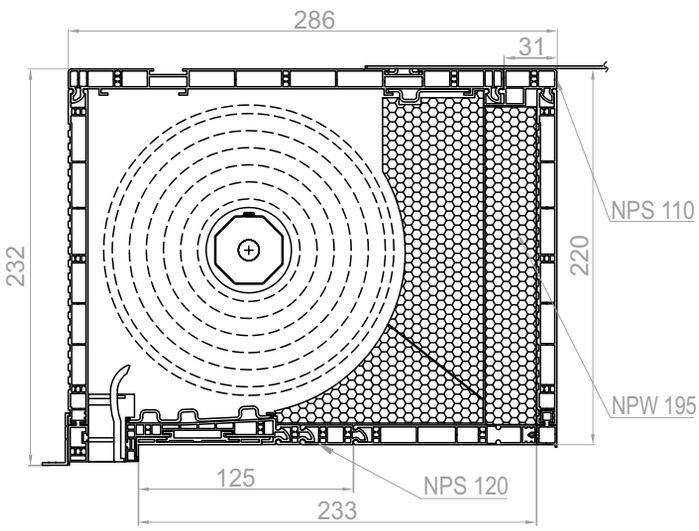
Extension of the side cap in box 250 - left and right



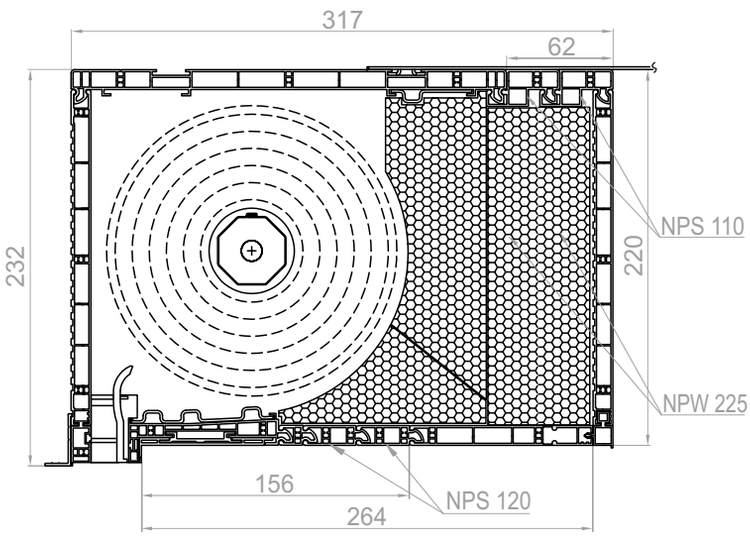
BOX 250 | ABS | Set 0,14kg

View of TP1000K boxes - box 220 with enlargement

Box with enlargement of 31 mm (1xNBB-050)

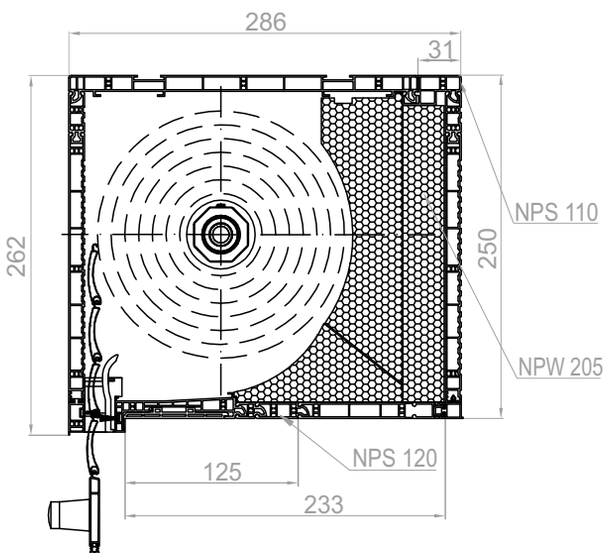


Box with enlargement of 62 mm (2xNPB-050)

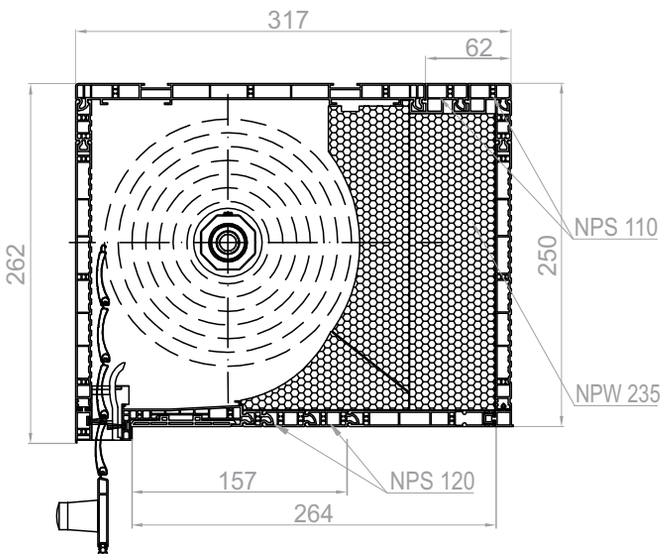


View of TP1000K boxes - box 250 with enlargement

Box with enlargement of 31 mm (1xNBB-060)

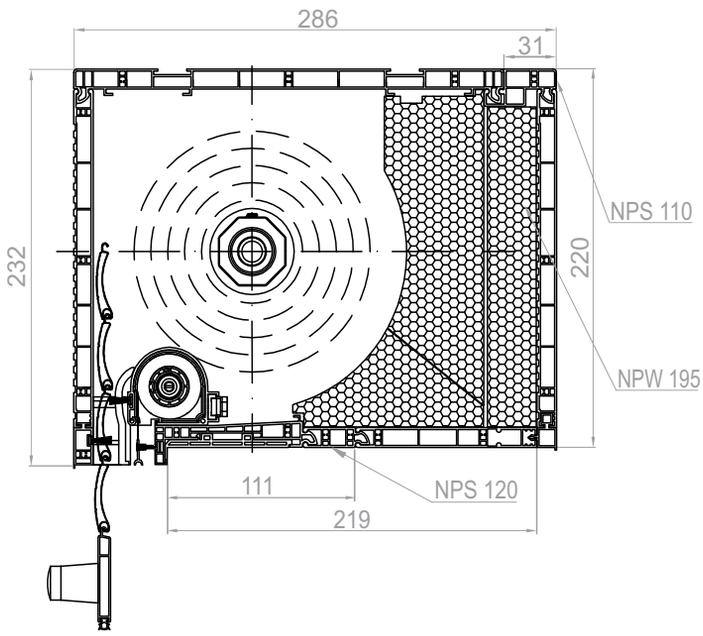


Box with enlargement of 62 mm (2xNPB-060)

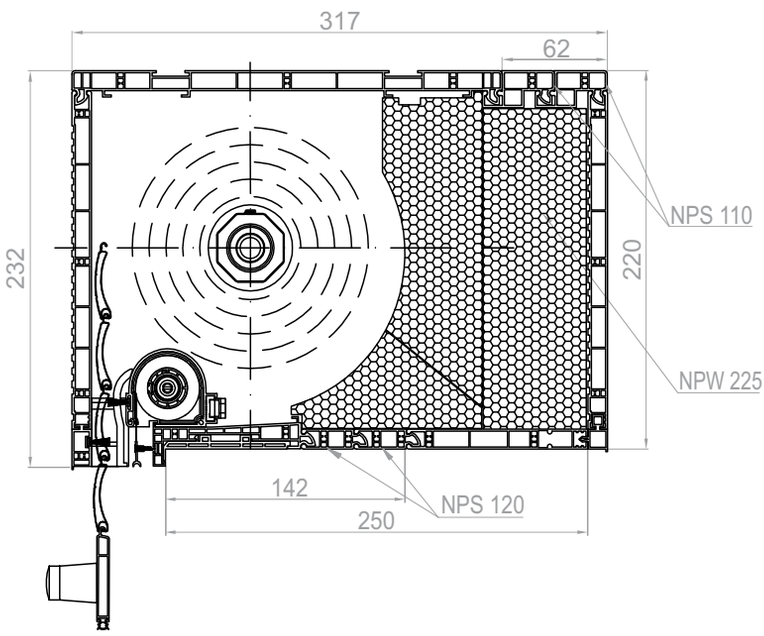


View of TP1000K boxes with mosquito net - box 220 with enlargement

Box with enlargement of 31 mm (1xNBB-050)

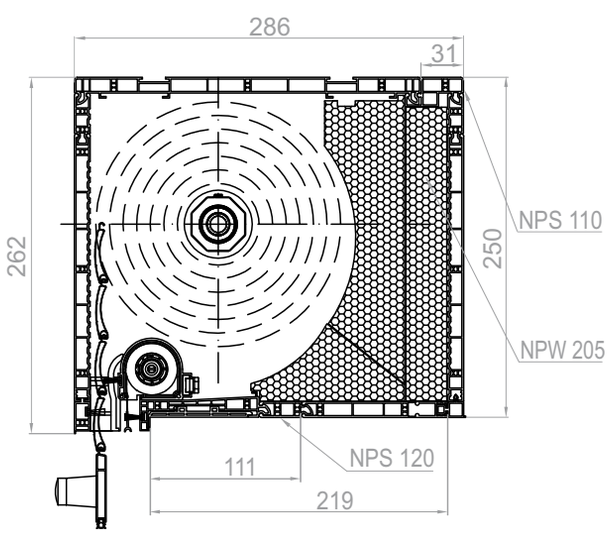


Box with enlargement of 62 mm (2xNPB-050)

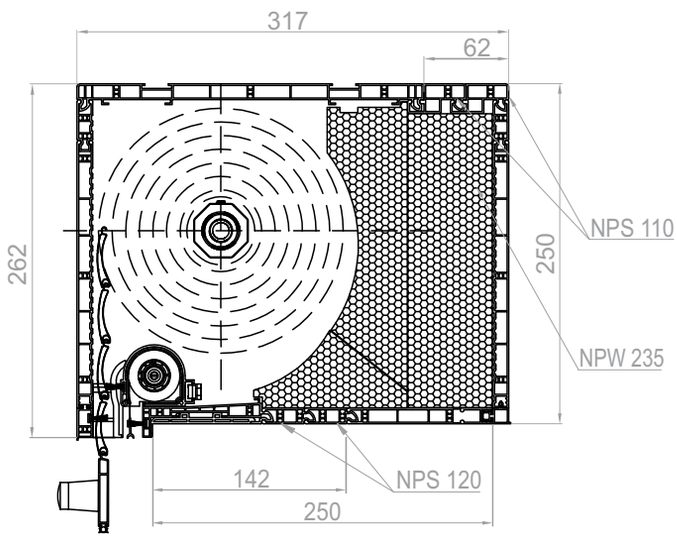


View of TP1000K boxes with mosquito net - box 250 with enlargement

Box with enlargement of 31 mm (1xNBB-060)

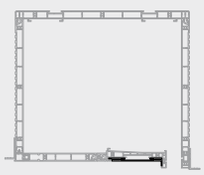


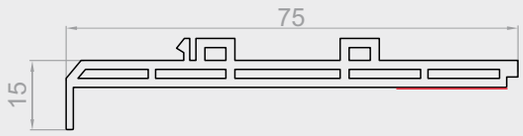
Box with enlargement of 62 mm (2xNPB-060)



NPS-010

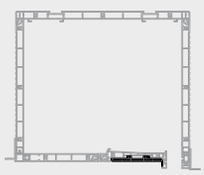
Box adapting profile click

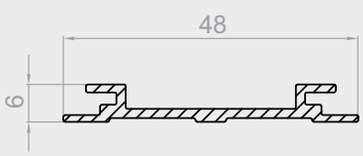




NPS-011

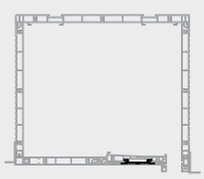
Box adapting profile



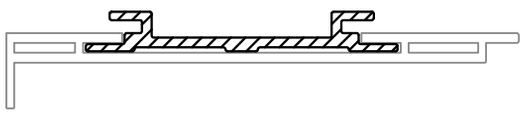


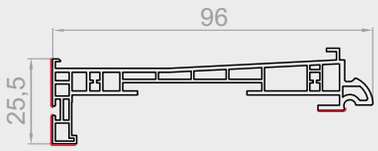
NPL-020

Aluminum inset for NPS-010.



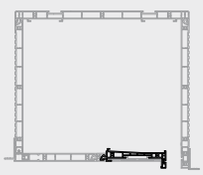
View of NPS-010 adaption profile with NPL-020 aluminium insert.



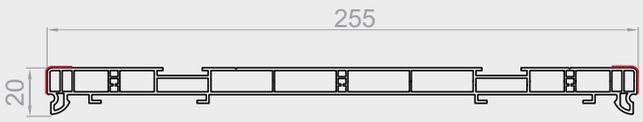


NPS-020

Bottom shutter box profile with seal

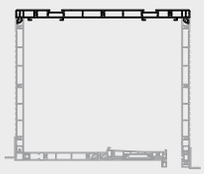


BOX 180,220,250 | Max. 6rm | PVC | 1rm 0,53kg | Pb

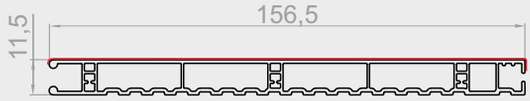


NPS-030

Top shutter box profile

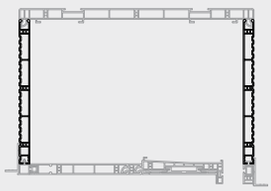


BOX 180,220,250 | Max. 6rm | PVC | 1rm 1,38kg | Pb

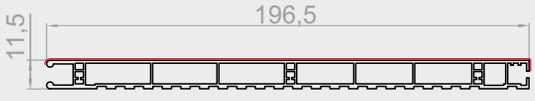


NPS-040

Side profile for box 180

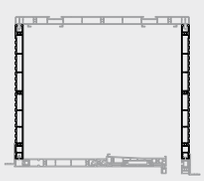


BOX 180 | Max. 6rm | PVC | 1rm 0,66kg | Pb

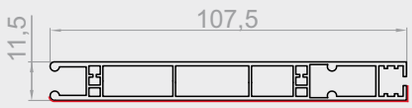


NPS-051

Side profile for box 220, 250

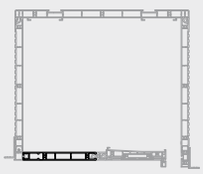


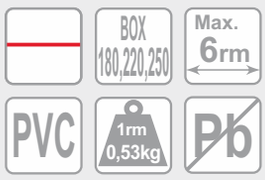
BOX 220,250 | Max. 6rm | PVC | 1rm 1,21kg | Pb

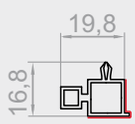


NPS-070

Bottom inspection hatch

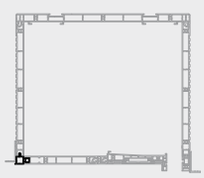


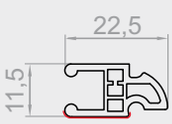




NPS-080

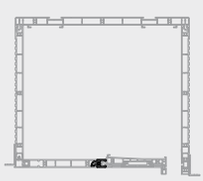
Connecting profile for box

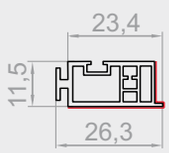




NPS-090

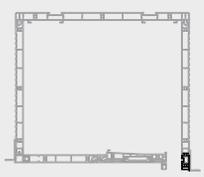
Complement bottom profile

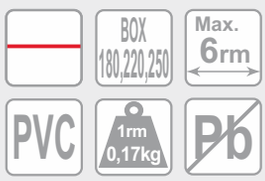


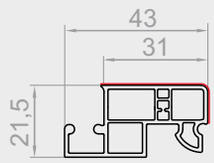


NPS-100

Bottom side profile with seal

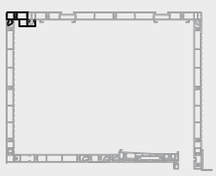




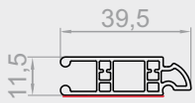


NPS-110

Broadenning upper profile of the box

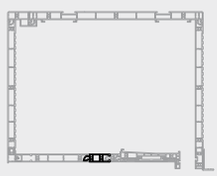


BOX 220,250 | Max. 6rm | PVC | 1rm 0,34kg | Pb

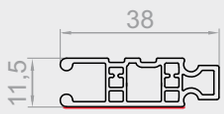


NPS-120

Broadenning bottom profile of the box

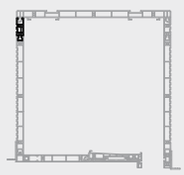


BOX 220,250 | Max. 6rm | PVC | 1rm 0,23kg | Pb

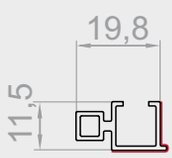


NPS-130

Additional profile for the vertical hatch

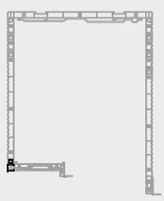


BOX 250 | Max. 6rm | PVC | 1rm 0,23kg | Pb

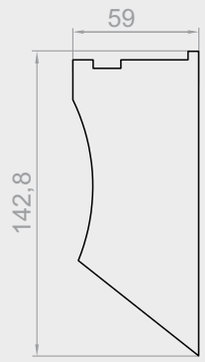


F-NPS-140

Box profile - connector for external blind.

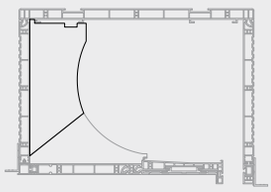


BOX 250 | Max. 6rm | PVC | 1rm 0,12kg | Pb

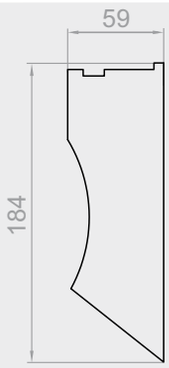


NPW-015

Thermal insulation for box 180

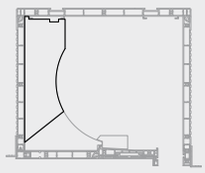


BOX 180



NPW-025

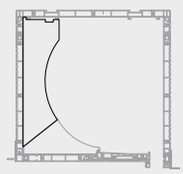
Thermal insulation for box 220



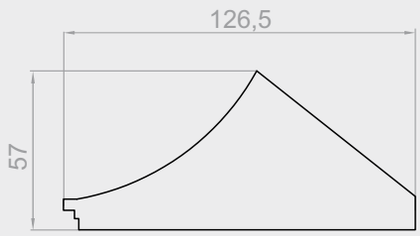
BOX 220

NPW-035

Thermal insulation for box 250

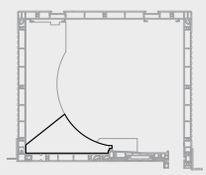


BOX 250

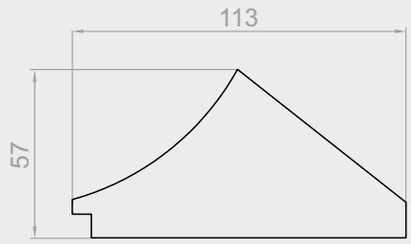


NPW-045

Bottom thermal insulation

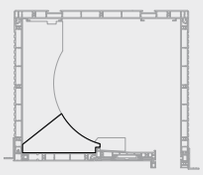


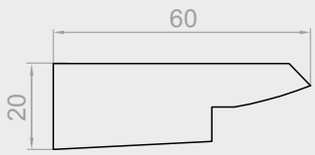
BOX 180,220,250



NPW-055

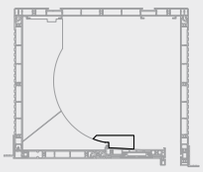
Bottom thermal insulation for the box with mosquito net

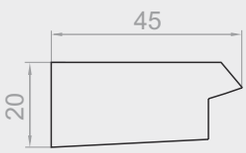




NPW-065

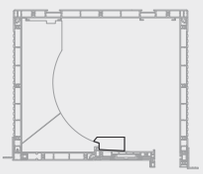
Additional thermal insulation for box 180, 220, 250

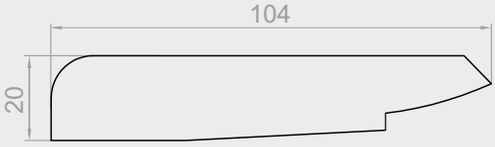




NPW-075

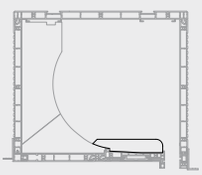
Additional thermal insulation
for the box 180, 220,250 with mosquito net

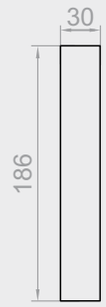




NPW-255

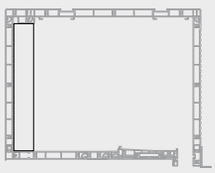
Additional long thermal insulation
for box 180, 220,250



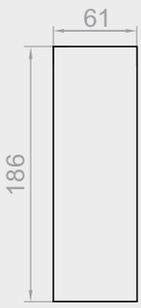


NPW-195

Broadening thermal insulation graphite 3cm
for end cap 220

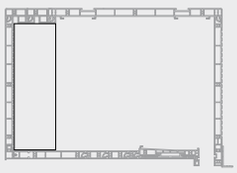


BOX 220

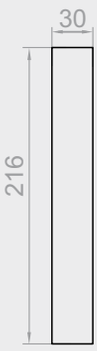


NPW-225

Broadening thermal insulation graphite 6cm
for end cap 220

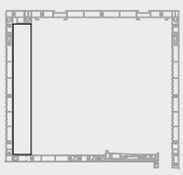


BOX 220

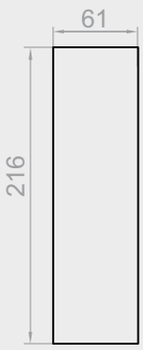


NPW-205

Broadening thermal insulation graphite 3cm
for end cap 250

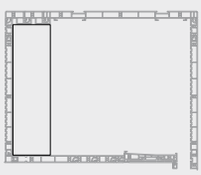


BOX 250

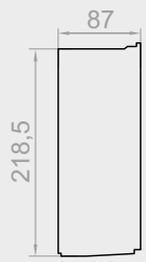


NPW-235

Broadening thermal insulation graphite 6cm
for end cap 250

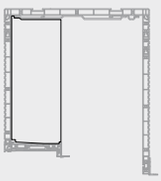


BOX 250



F-NPW-265

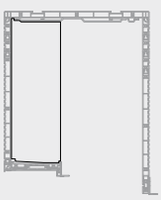
Styrofoam insert of the box with external blind.



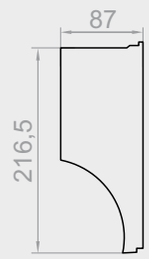
BOX 250

F-NPW-275

Styrofoam insert of the raised box with external blind.

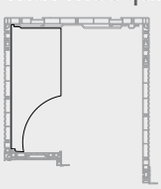


BOX 250

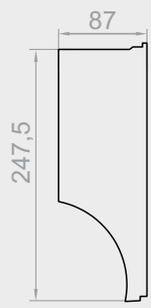


F-NPW-285

Styrofoam insert of the box with external blind with mosquito net.

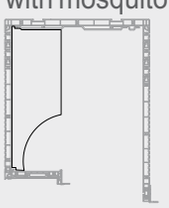


BOX 250

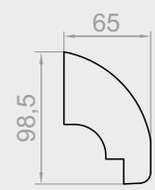


F-NPW-295

Styrofoam insert of the raised box with external blind with mosquito net.

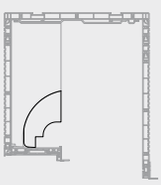


BOX 250

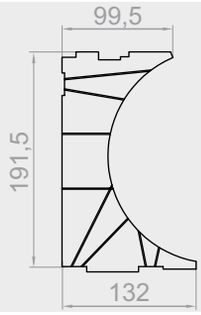


F-NPW-305

Additional styrofoam insert of the box with external blind.



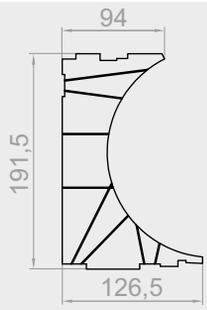
BOX 250



NPW-090 L/P

Thermal insulation for end cap 220

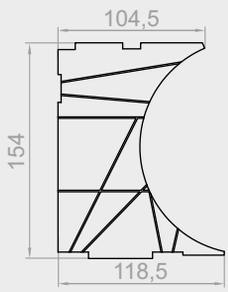
BOX 220



NPW-100 L/P

Thermal insulation for end cap 220 with mosquito net

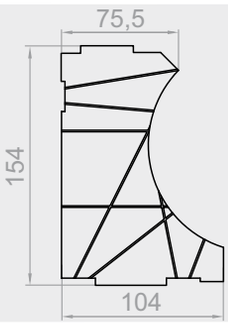
BOX 220



NPW-140 L/P

Thermal insulation for end cap 180

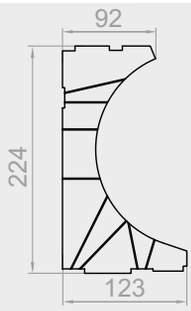
BOX 180



NPW-150 L/P

Thermal insulation for end cap 180 with mosquito net

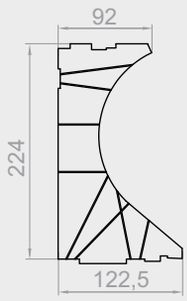
BOX 180



NPW-160 L/P

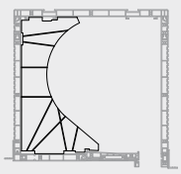
Thermal insulation for end cap 250

BOX 250

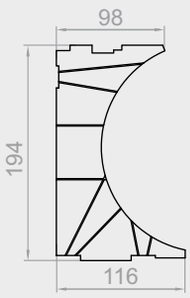


NPW-170 L/P

Thermal insulation for end cap 250 with mosquito net

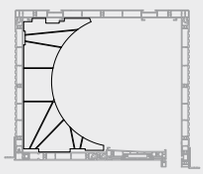


BOX 250

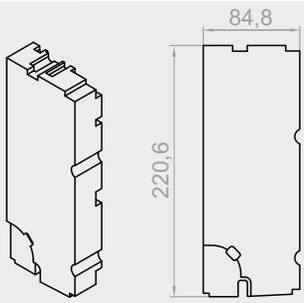


NPW-240 L/P

Thermal insulation for division NPJ-020 of the box 220

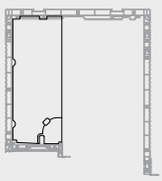


BOX 220

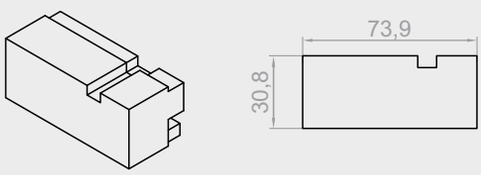


F-NPW-310 L/P

Styrofoam insert of side 250 of the box for external blind left/ right.

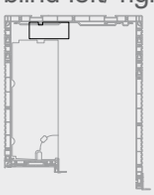


BOX 220



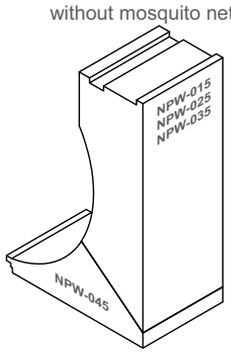
F-NPW-320 L/P

Styrofoam insert of side 250 raising of the box for external blind left/ right.

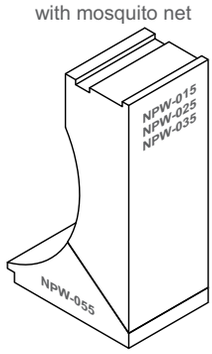


BOX 220

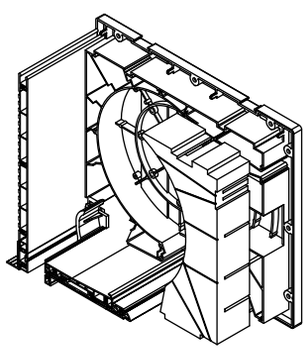
View of
NPW-045 bottom styrofoam inserts with **NPW-015/025/035** rear inserts - the box without mosquito net

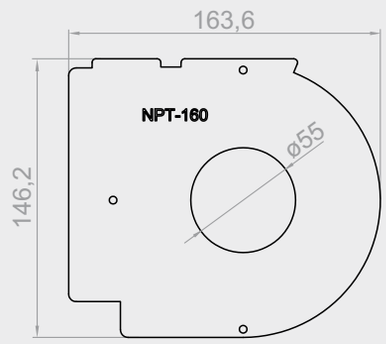


View of
NPW-055 bottom styrofoam inserts with **NPW-015/025/035** rear inserts - the box with mosquito net



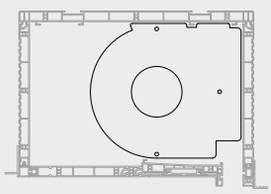
View of styrofoam insert of the side **NPW-090/100/140/150/160/170** with the side



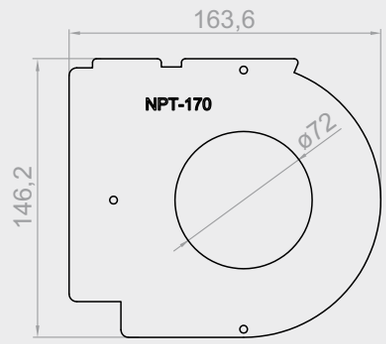


NPT-160

Internal cover of side cap 180 for mounting cap fi-40

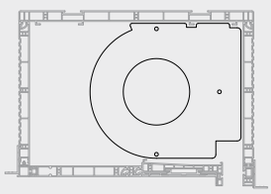


BOX 180

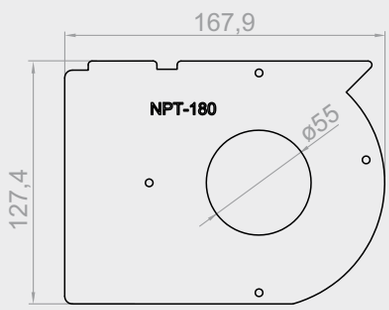


NPT-170

Internal cover of side cap 180 for mounting cap fi-60

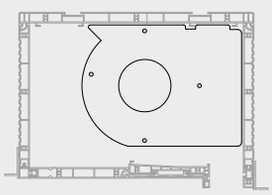


BOX 180

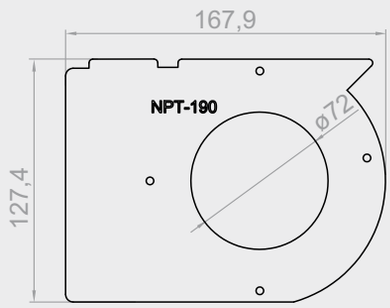


NPT-180

Internal cover of side cap 180 with mosquito net for mounting cap fi-40

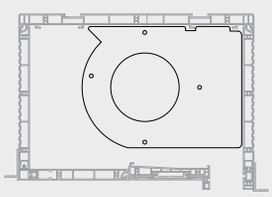


BOX 180

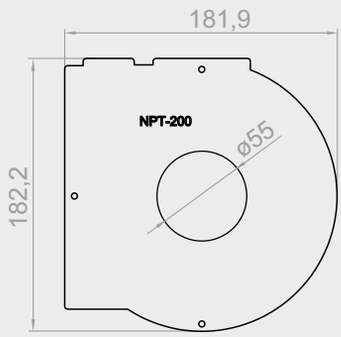


NPT-190

Internal cover of side cap 180 with mosquito net for mounting cap fi-60

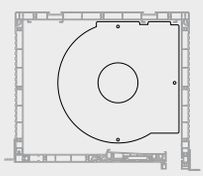


BOX 180

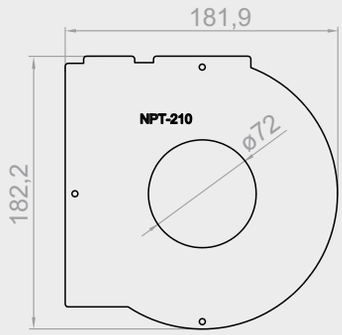


NPT-200

Internal cover of side cap 220 for mounting cap fi-40

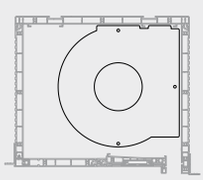


BOX 220

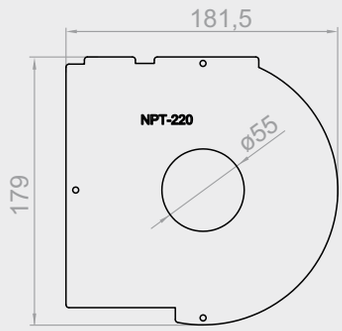


NPT-210

Internal cover of side cap 220 for mounting cap fi-60

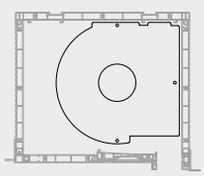


BOX 220

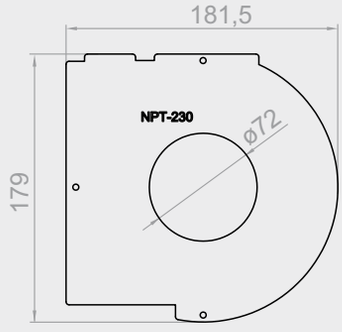


NPT-220

Internal cover of side cap 220 with mosquito net for mounting cap fi-40

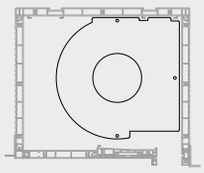


BOX 220

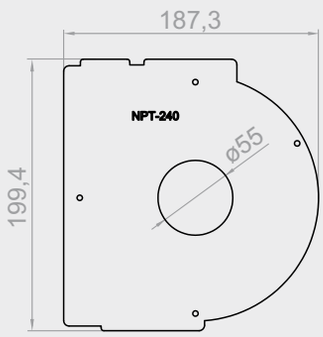


NPT-230

Internal cover of side cap 220 with mosquito net for mounting cap fi-60

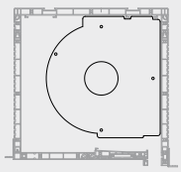


BOX 220

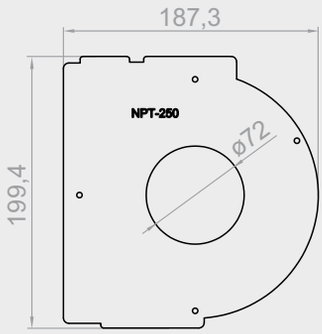


NPT-240

Internal cover of side cap 250 for mounting cap fi-40

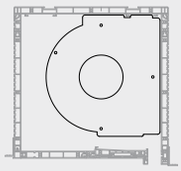


BOX 250

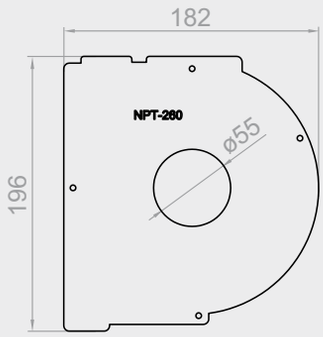


NPT-250

Internal cover of side cap 250 for mounting cap fi-60

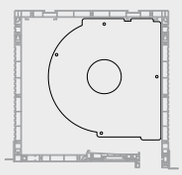


BOX 250

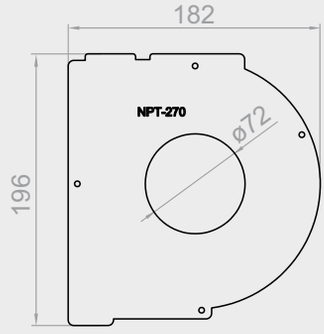


NPT-260

Internal cover of side cap 250 with mosquito net for mounting cap fi-40

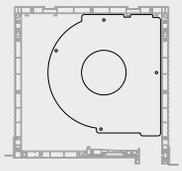


BOX 250



NPT-270

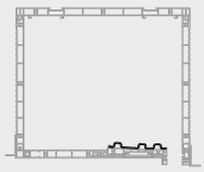
Internal cover of side cap 250 with mosquito net for mounting cap fi-60



BOX 250

NPT-010

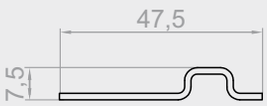
Bottom steel reinforcement for box without mosquito net



BOX 180,220,250

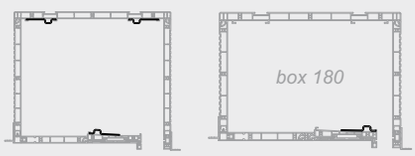
Max. 6rm

1rm 1,10kg



NPT-020

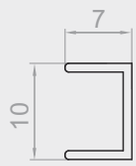
External and internal upper and bttom steel reinforcement for box with mosquito net.
Bottom steel reinforcement for box 180.



BOX 180,220,250

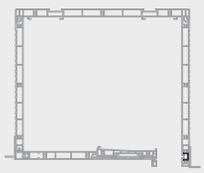
Max. 6rm

1rm 0,61kg



RA-2-00 7 MM

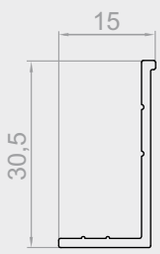
Small reinforcement of cover - raw 7mm



BOX 180,220,250

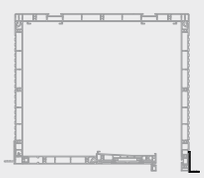
Max. 6rm

1rm 0,06kg



NPL-010

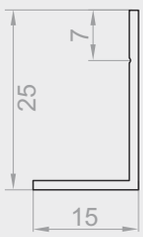
Lath for plaster finishes



BOX 180,220,250

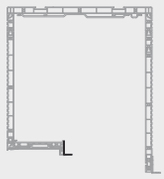
Max. 6rm

1rm 0,18kg



LT

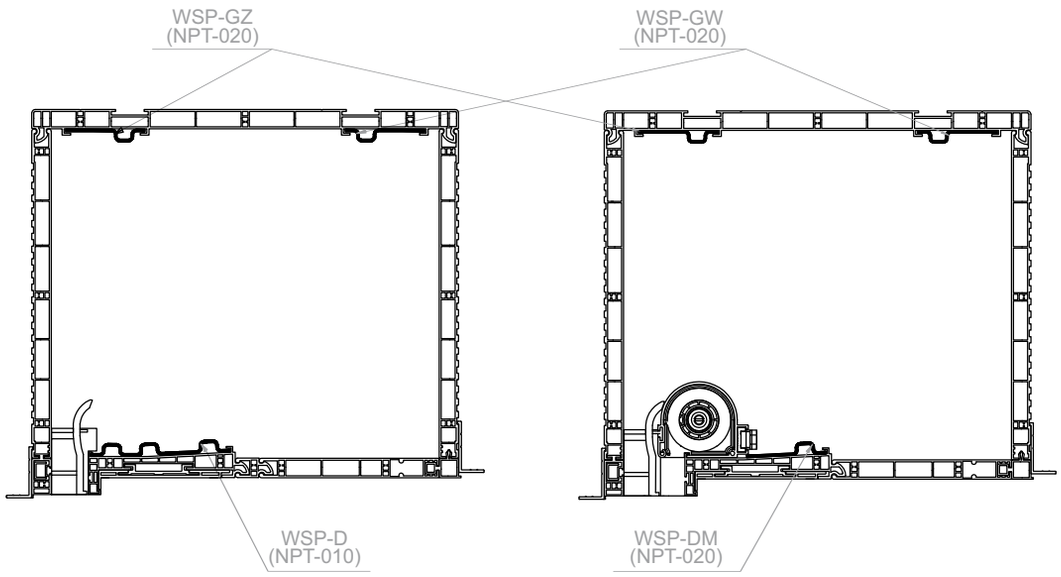
Covering lath of the external blind box without mosquito net.

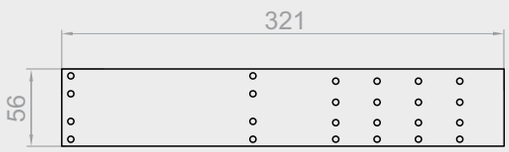


Max. 6rm

BOX 250

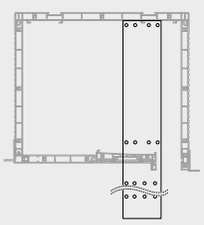
Arrangement of **NPT-010** and **NPT-020** reinforcements in TP1000K shutter boxes without and with mosquito net





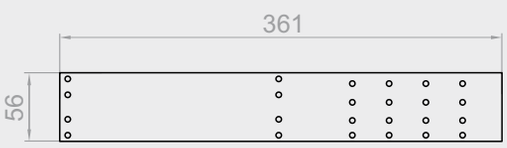
NPT-140

Steel side conector 56mm for box 180



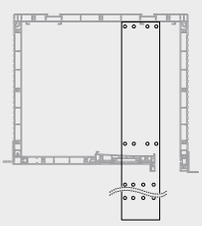
BOX 180

1pcs 0,14kg



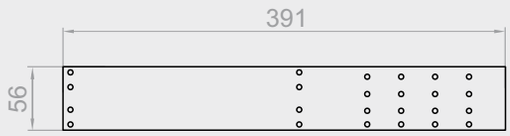
NPT-040

Steel side conector 56mm for box 220



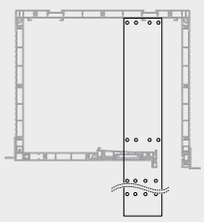
BOX 220

1pcs 0,23kg



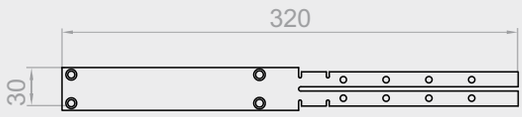
NPT-150

Steel side conector 56mm for box 250



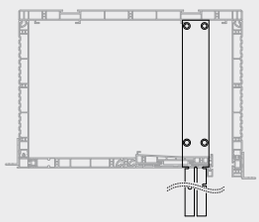
BOX 250

1pcs 0,17kg



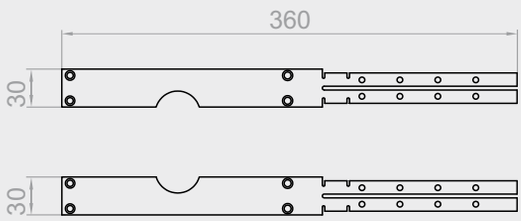
NPT-120

Steel side conector 30mm for box 180



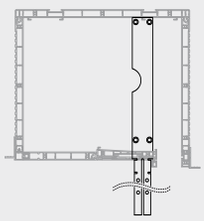
BOX 180

1pcs 0,06kg



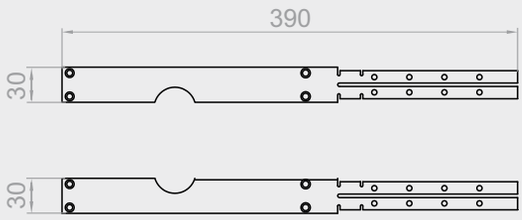
NPT-030 L/P

Steel side conector 30mm for box 220



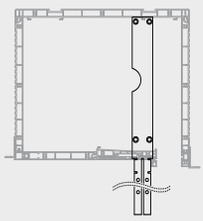
BOX 220

1pcs 0,11kg



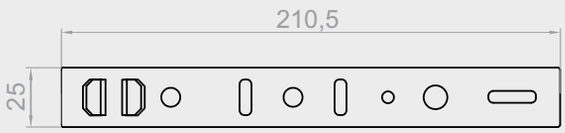
NPT-130 L/P

Steel side conector 30mm for box 250



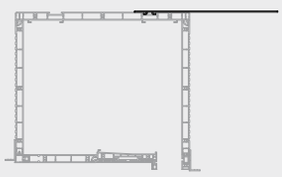
BOX 250

1pcs 0,07kg



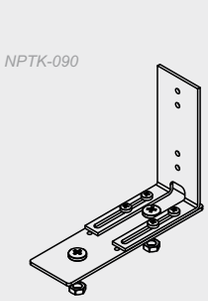
NPT-050

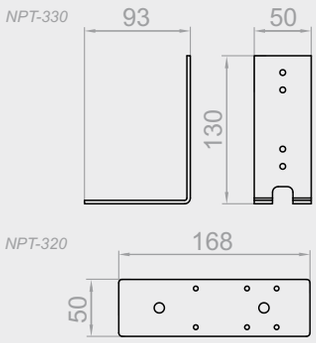
Steel mounting anchor



BOX 180,220,250

1pcs 0,06kg





F-NPTK-090

Lintel handle for roller shutter with external blind.

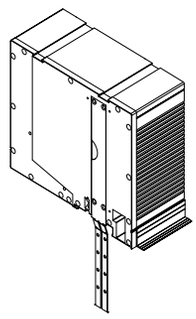
F-NPT-320

Lintel handle for roller shutter with external blind bottom.

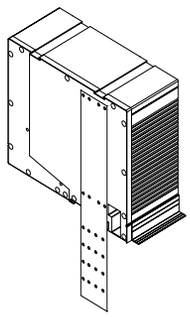
F-NPT-330

Lintel handle for roller shutter with external blind top.

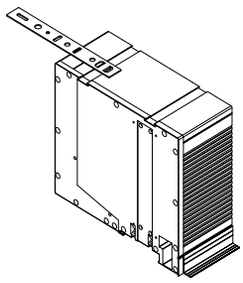
NPT-030 - Steel side handle 30 mm.



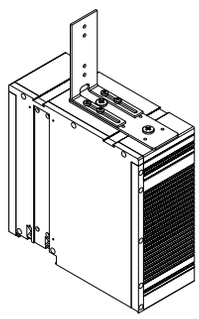
NPT-040 - Steel side handle 56 mm.

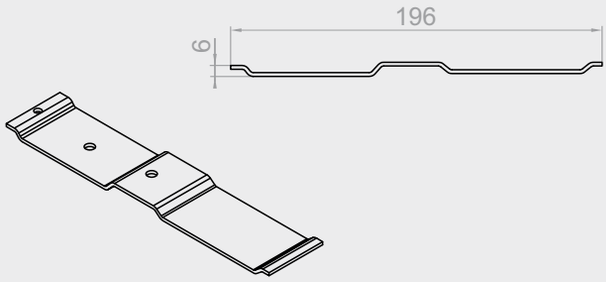


NPT-050 - Steel mounting anchor.



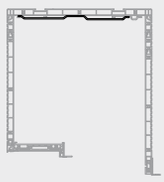
F-NPTK-090 - Lintel handle for roller shutter with external blind.



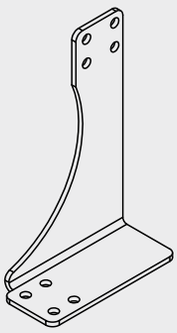


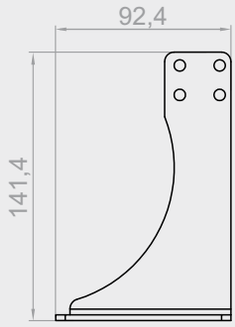
F-NPT-280

Main holder for external blind.



BOX 250



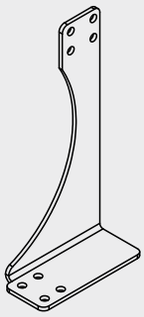


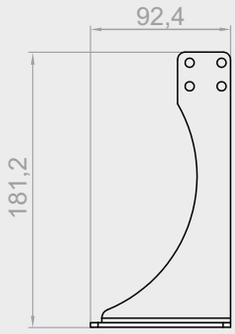
NPT-060

Stabilizing console for box 180

BOX 180

1pcs 0,22kg



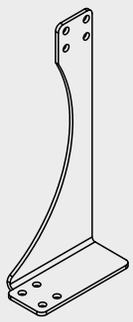


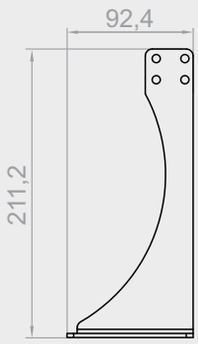
NPT-070

Stabilizing console for box 220

BOX 220

1pcs 0,24kg



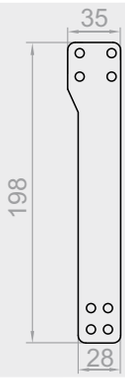


NPT-080

Stabilizing console for box 250

BOX 250

1pcs 0,26kg

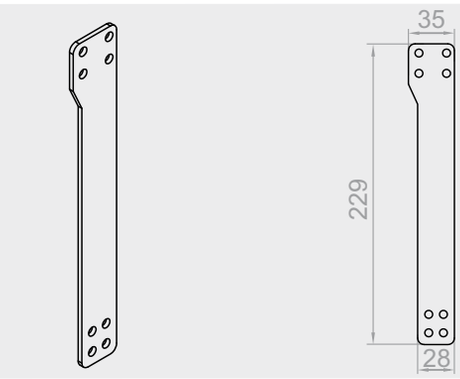


F-NPT-290

Inner console of the box 250 for external blind.

BOX 250

1pcs 0,13kg

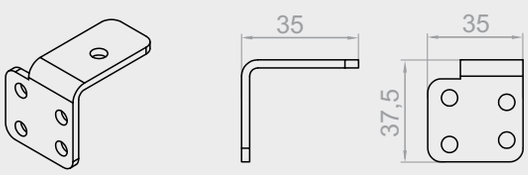


F-NPT-300

Inner console of the raised box 250 for external blind.

BOX 250

1pcs 0,15kg

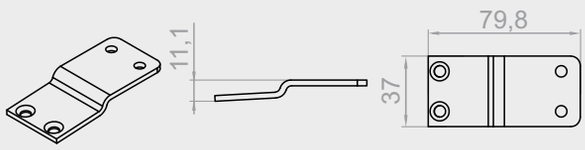


NPT-090

Top conector of stabilizing console

BOX 180,220,250

1pcs 0,05kg

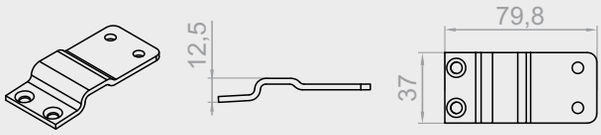


NPT-100

Bottom conector of stabilizing console
without reinforcement

BOX 180,220,250

1pcs 0,07kg

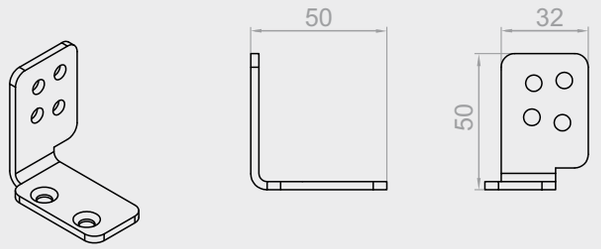


NPT-110

Bottom conector of stabilizing console
with reinforcement

BOX 180,220,250

1pcs 0,07kg



F-NPT-310

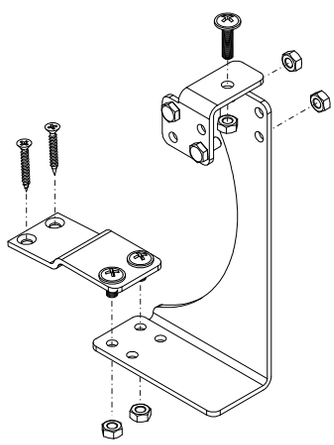
Lower connector of the stabilizing console for external blind.

BOX 250

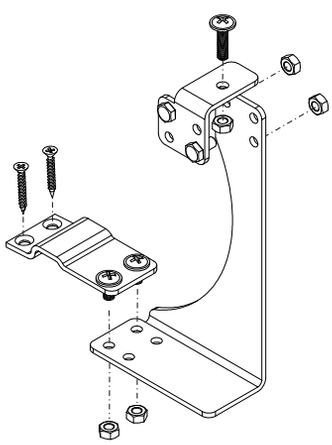
1pcs 0,056kg

View of stabilizing consoles with connectors.

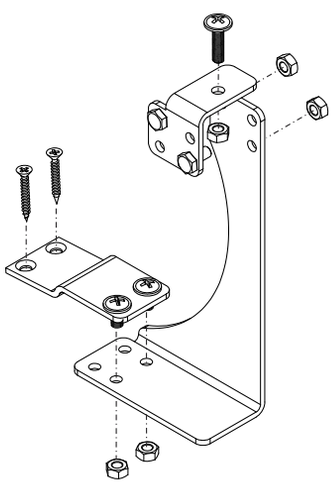
TP1000K Shutter stabilizing console
NPTK-030 - 180 box
NPTK-010 - 220 box
NPTK-050 - 250 box



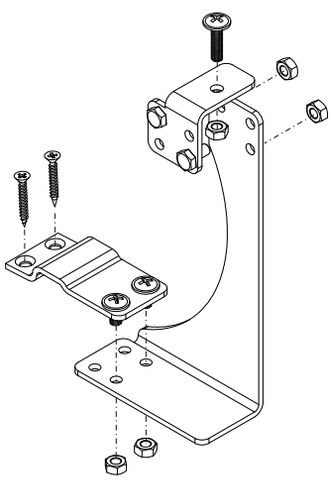
TP1000K Shutter stabilizing console with bottom reinforcement
NPTK-040 - 180 box
NPTK-020 - 220 box
NPTK-060 - 250 box



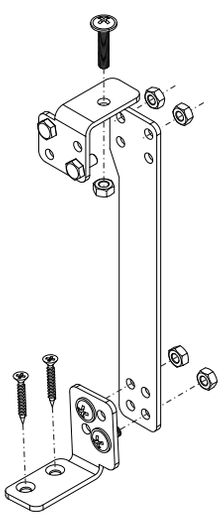
TP1000K Shutter stabilizing console
NPTK-030 - box 180 with mosquito net
NPTK-010 - box 220 with mosquito net
NPTK-050 - box 250 with mosquito net

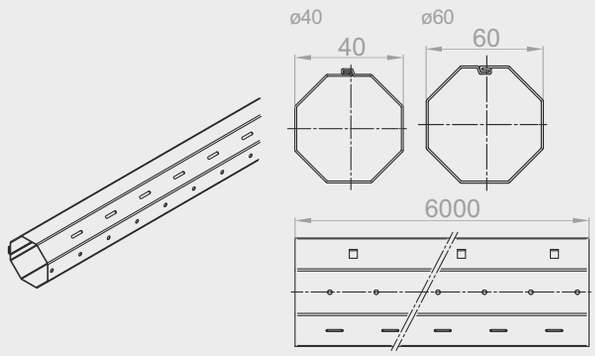


TP1000K Shutter stabilizing console with bottom reinforcement
NPTK-040 - box 180 with mosquito net
NPTK-020 - box 220 with mosquito net
NPTK-060 - box 250 with mosquito net



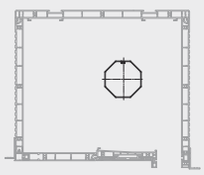
TP1000K-ZF roller shutter stabilizing console
F-NPTK-070 - for box 250 with external blind
F-NPTK-080 - for raised box 250 with external blind





SW 40
Octagonal pipe 40

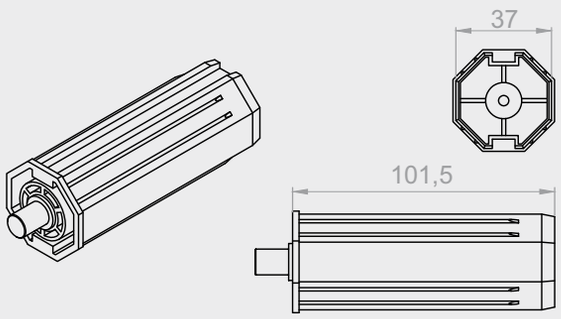
SW 60
Octagonal pipe 60



ø40 1rm 0,66kg

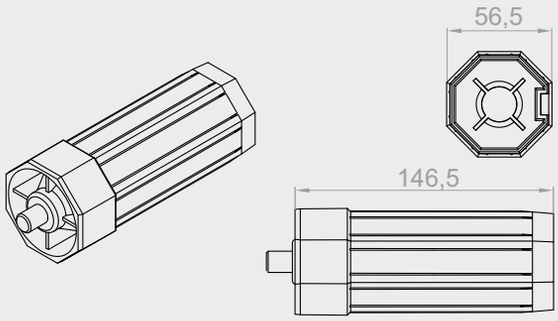
Max. 6rm

ø60 1rm 0,96kg



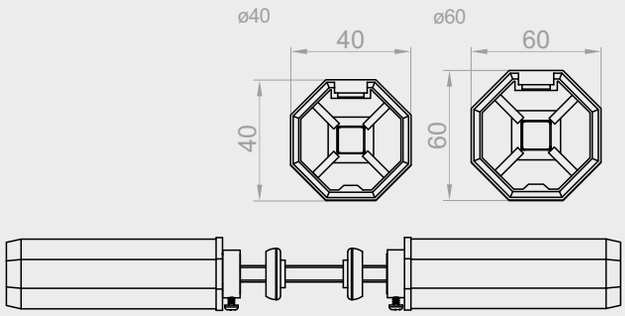
OBS-40-PVC
PVC mounting with pin for pipe ø 40

1pcs 0,04kg



OBS-60-PVC
PVC mounting with pin for pipe ø 60

1pcs 0,14kg

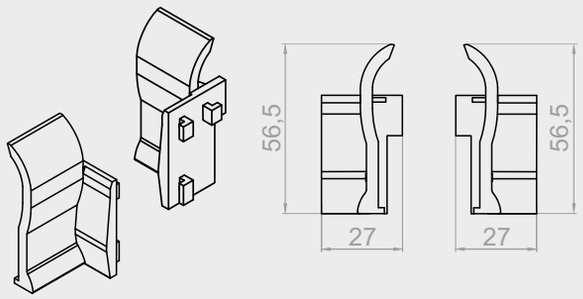


RKZ 34
Round bolt for octagonal pipe 40mm

RKZ 35
Round bolt for octagonal pipe 60mm

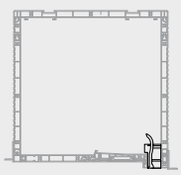
ø40 1pcs 0,34kg

ø60 1pcs 0,385kg



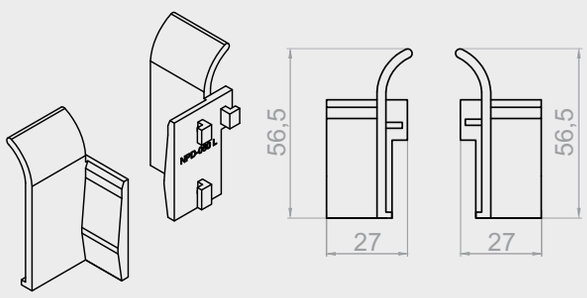
NPD-050

Entry guide for profile 37-45 left/right



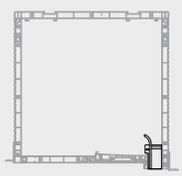
BOX 160,220,250

1pcs 0,009kg



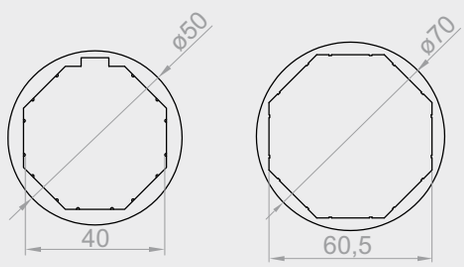
NPD-060

Entry guide for profile 52 left/right



BOX 160,220,250

1pcs 0,009kg

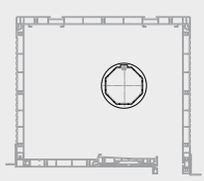


PZ 40/50

40/50 expansion ring

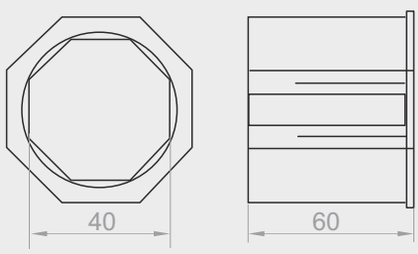
PZ 60/70

60/70 expansion ring



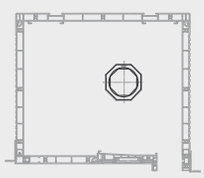
ø40 1pcs 0,01kg

ø60 1pcs 0,03kg

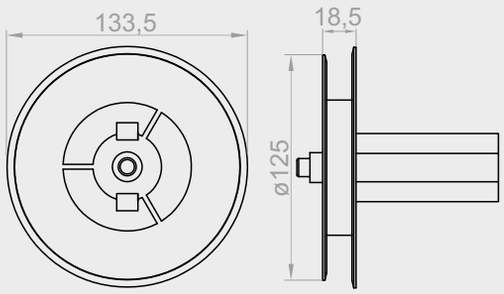


RED-40-60

Reduction 40/60



1pcs 0,05kg

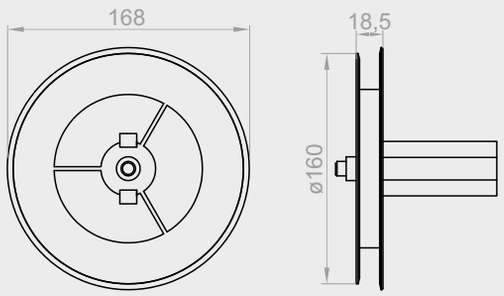


RKZ 71

Pulley for the box 180

BOX 180

1pcs 0,09kg

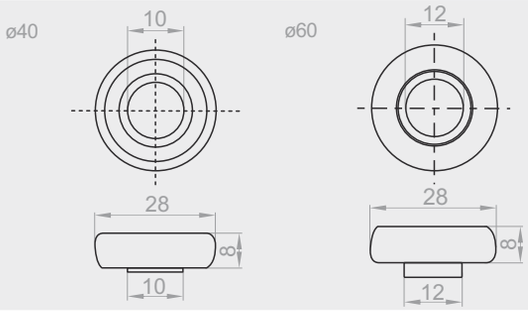


RKZ 72

Pulley of shutter box 220,250

BOX 220,250

1pcs 0,13kg



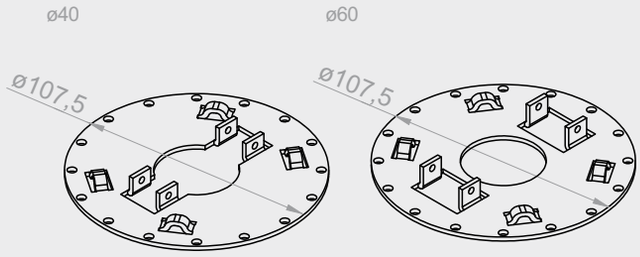
LO-28/10

28/10 bearing for PVC shutter boxes fi 40

LO-28/12

28/12 bearing for PVC shutter boxes fi 60

1pcs 0,02kg

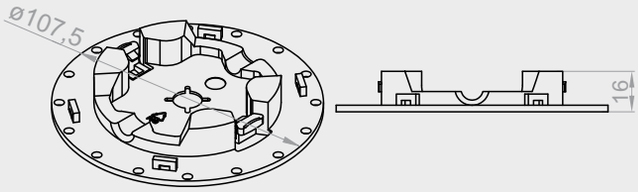


RKZ P4

Plate for mounting tubular motor in PVC shutter box fi 40

RKZ P6

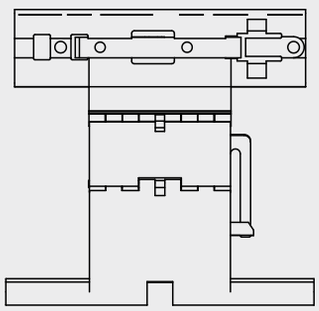
Plate for mounting tubular motor in PVC shutter box fi 60



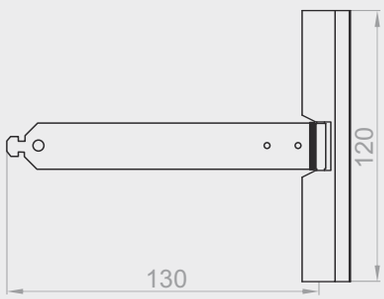
US-PADS 60

Plate for mounting tubular motor in PVC shutter box fi 60

1pcs 0,03kg

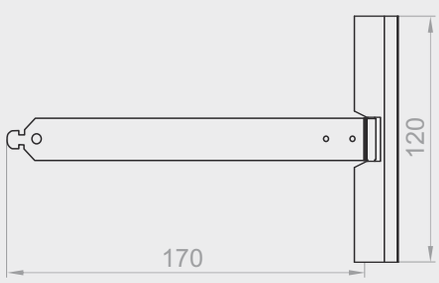


WBZ1-40
Lokking hanger 1-part for pipe 40
WBZ2-40
Lokking hanger 2-part for pipe 40
WBZ1-60
Lokking hanger 1-part for pipe 60
WBZ2-60
Lokking hanger 2-part for pipe 60



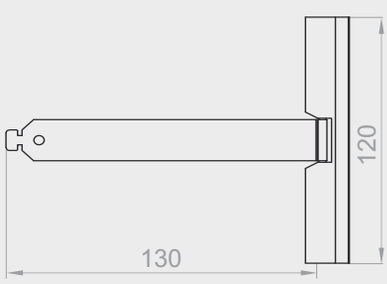
WS-37/40-130
Steel hanger 130

1pcs
0,02kg



WS-37/40-170
Steel hanger 170

1pcs
0,02kg



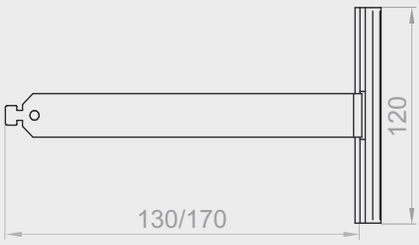
WS-37/40-130 S
Steel hanger 130 alu for motors

1pcs
0,02kg

WS-37/40-170 S

Steel hanger 170 alu for motors

1pcs 0,02kg



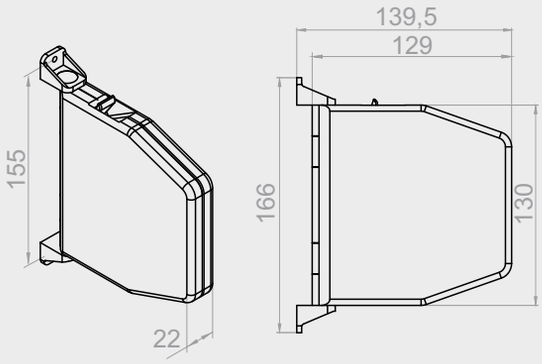
WS-37/40-130 ALU

Steel hanger 130 alu

WS-37/40-170 ALU

Steel hanger 170 alu

1pcs 0,02kg



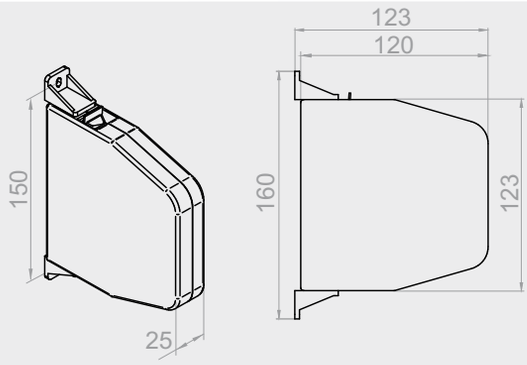
ZT-5M02

Tape (strip) coiler up to 5m - white

ZT-5M08

Tape (strip) coiler up to 5m - brown

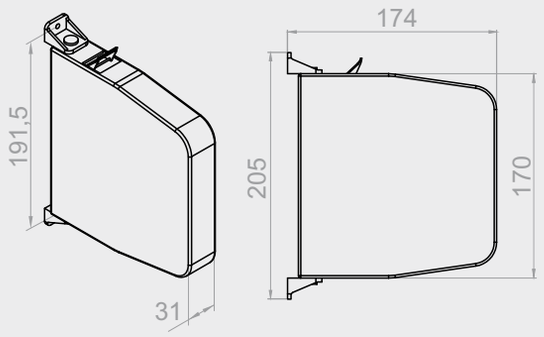
1pcs 0,21kg



ZT/L-5M-23

Tape/cord colier 5 m anthracite

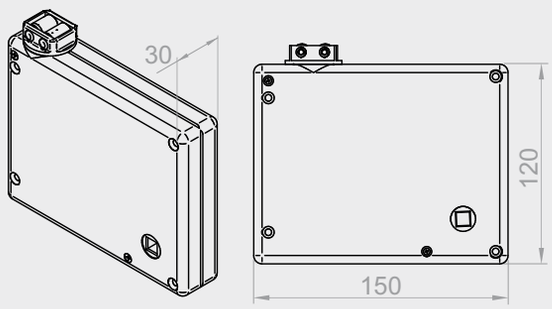
1pcs 0,235kg



ZT-11M02
Tape (strip) coiler up to 11m - white

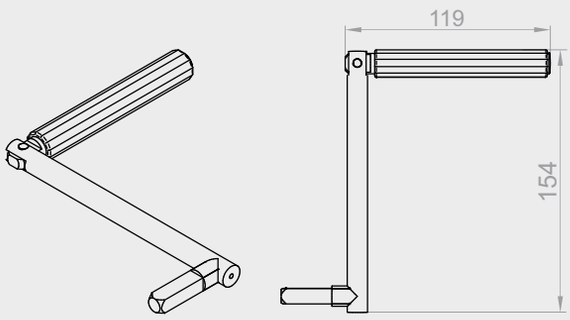
ZT-11M08
Tape (strip) coiler up to 11m - brown

1pcs 0,45kg



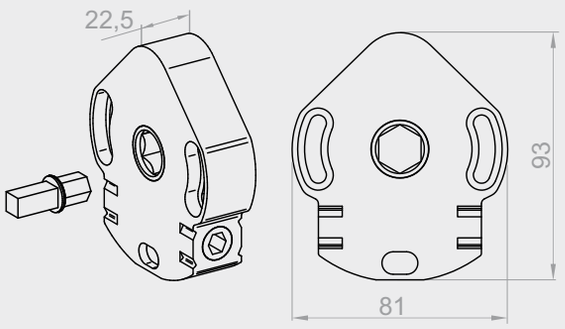
KPT KM
Casette (box) with tape (strip) transmission

1pcs 0,35kg



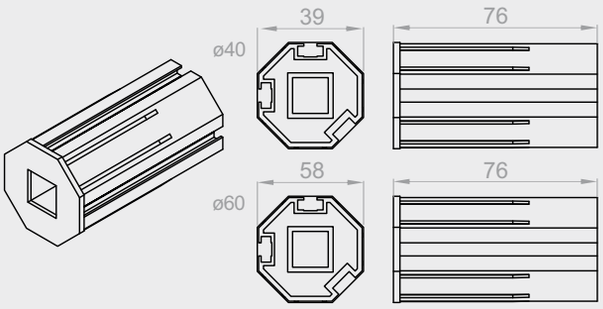
KRM-140
Mignon crank 140 mm

1pcs 0,25kg



ACE-1-8
ACE 1:8 crank mechanism

1pcs 0,25kg

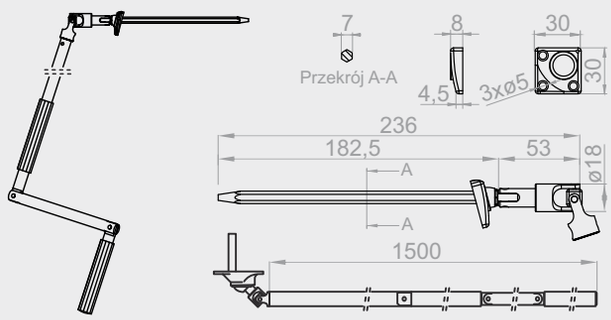


OBS-40-ACE
Mounting cap fi-40 for ace mechanism

OBS-60-ACE
Mounting cap fi-60 for ace mechanism

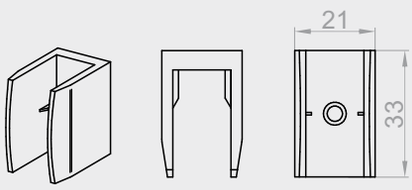
ø40 1pcs 0,03kg

ø60 1pcs 0,05kg

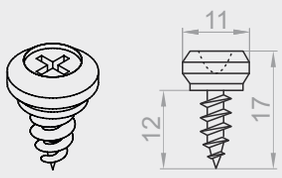


KRH-ZF
Kardan 90 with 1500mm crank

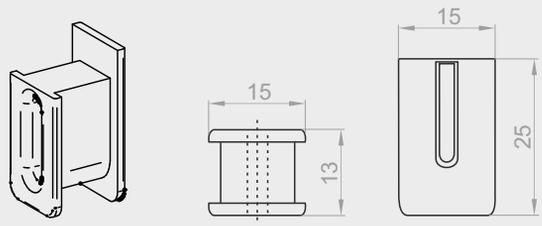
1pcs 0,68kg



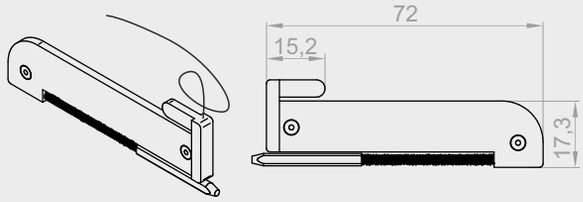
U-KRD
Wall handle for kardan crank



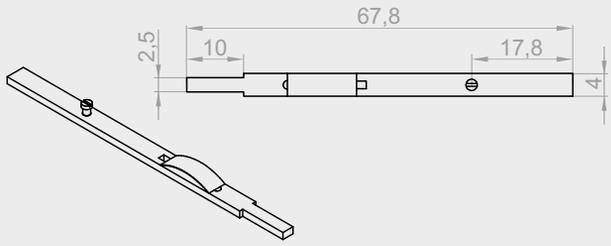
NYP
Guide nipple



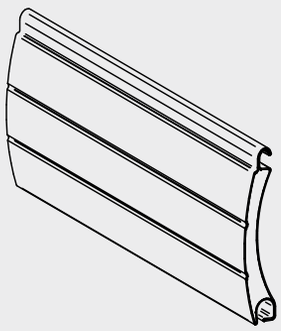
NPD-040
Belt guide

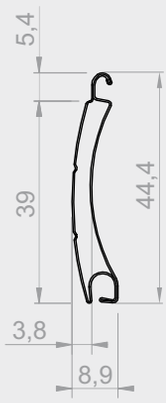


RA
Automatic bolt



ZR
Latch (manual bolt)





PA 39/0k

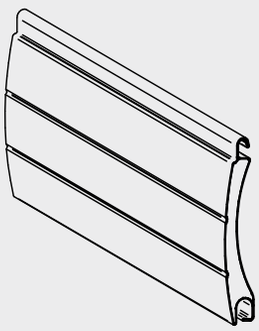
Aluminium profile pa 39 - perforated

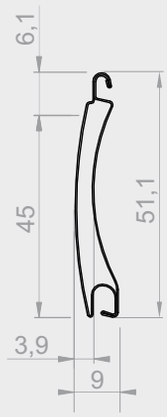
PA 39/1k

Aluminium profile pa 39 - unperforated

Profile height	39 mm
Profile thickness	8,9 mm
Profile weight 1 m^2	2,8 kg
Maximum profile length	6 rm
Number of laths 1m high	26 pcs
Maximum area	6,5 m^2
Maximum shutter width	2500 mm

Profile colors (k)





PA 45/0k

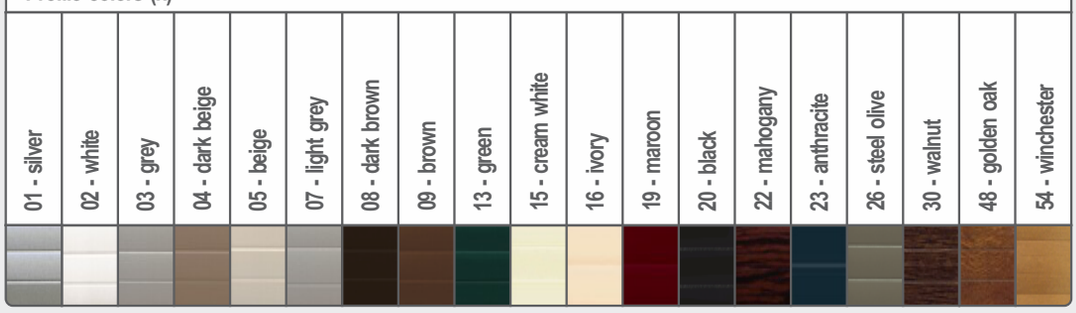
Aluminium profile pa 45 - perforated

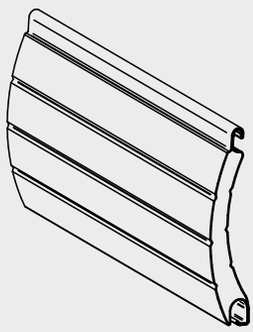
PA 45/1k

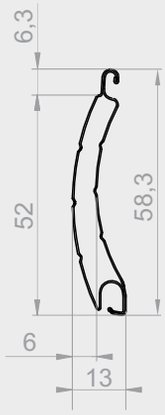
Aluminium profile pa 45 - unperforated

Profile height	45 mm
Profile thickness	9 mm
Profile weight 1 m^2	2,9 kg
Maximum profile length	6 rm
Number of laths 1m high	23 pcs
Maximum area	6,5 m^2
Maximum shutter width	3000 mm

Profile colors (k)







PA 52/0k

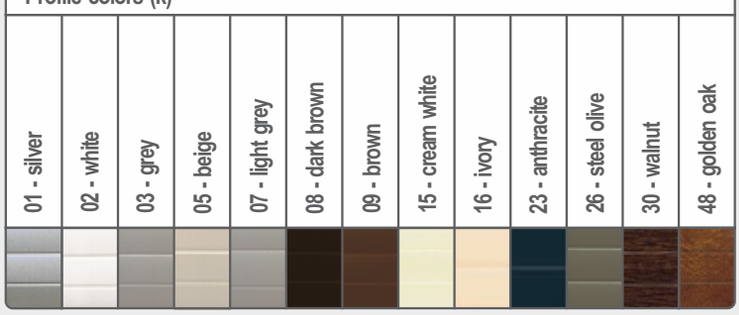
Aluminium profile pa 52 - perforated

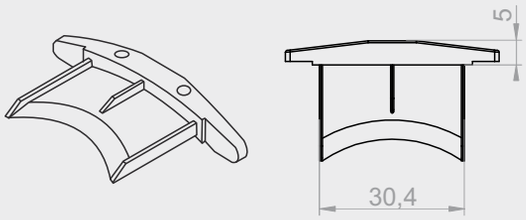
PA 52/1k

Aluminium profile pa 52 - unperforated

Profile height	52 mm
Profile thickness	13 mm
Profile weight 1 m^2	3,0 kg
Maximum profile length	6 rm
Number of laths 1m high	19 pcs
Maximum area	8,0 m^2
Maximum shutter width	3700 mm

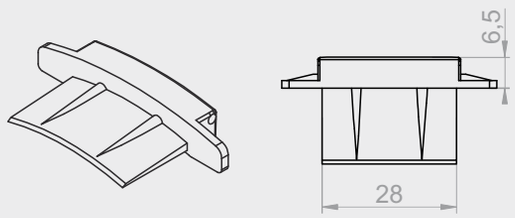
Profile colors (k)





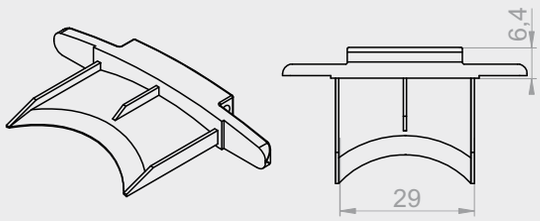
APA 39 M

Lateral cap for PA-39 ALU slat



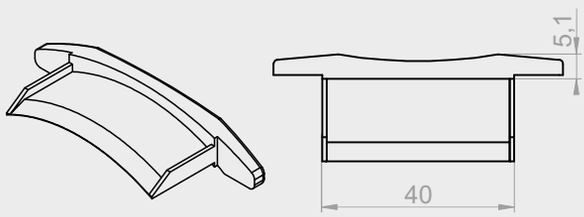
APA 37-R

Lateral cap for PA-39 slat, bolts



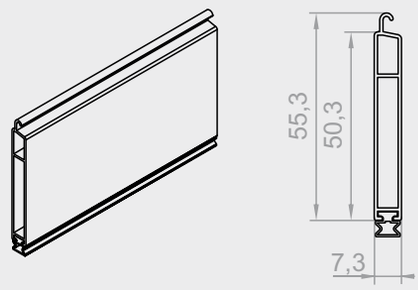
APA 45-R

Lateral cap for PA-45 ALU slat, bolts



APA 52

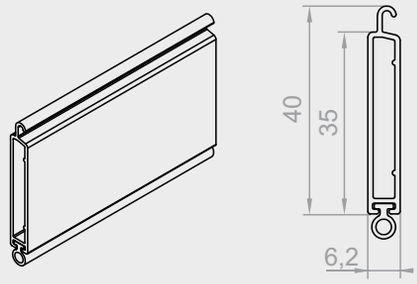
Lateral cap for PA-52 ALU slat



LD-37
Bottom lath for profile PA 39, PA 45, PA 52,

KA-44
Seal for LD-37

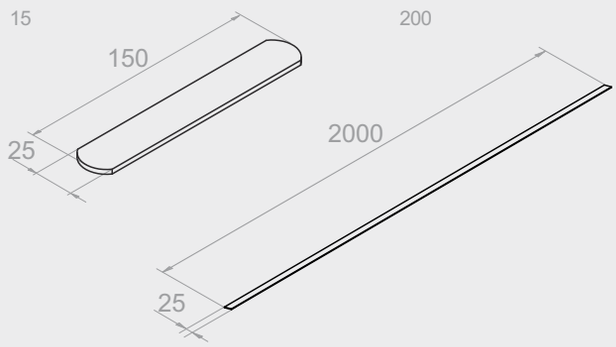
1rm 0,30kg



LD-35 MINI
Bottom lath for profiles PA 39, PA 45,

KA-44B
Seal for LD-35 MINI

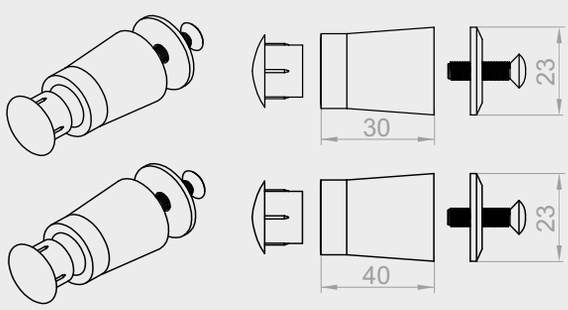
1rm 0,24kg



LD-OBCIĄŻNIK 15
Weight of bottom lath 15cm

LD-OBCIĄŻNIK 200
Weight of bottom lath 200cm

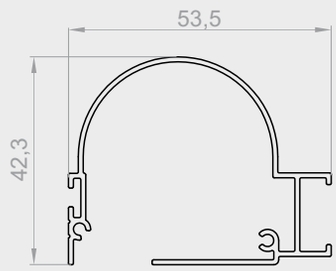
15 1pcs 0,09kg
200 1pcs 0,76kg



BF (without plug)
BF-ZAT } SET
Bottom lath bumper

BF-40MM (without plug)
BF-ZAT } SET
Bottom lath bumper

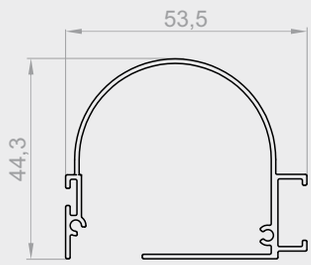
1pcs 0,01kg



M-RN-090

Mosquito's net cassette for box 180

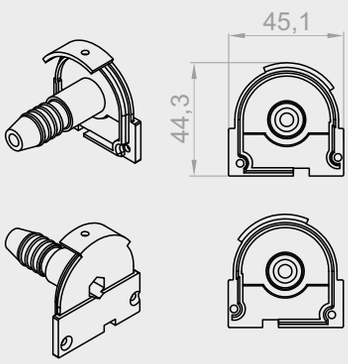
BOX 180



M-RN-011

Mosquito's net cassette for box 220,250

BOX 220,250



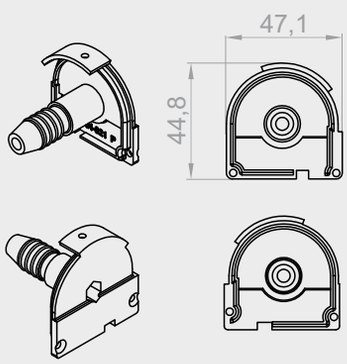
M-RN-080 L/P

Side caps of mosquito's net cassette in box 180

BOX 180

ABS

1pcs 0,01kg



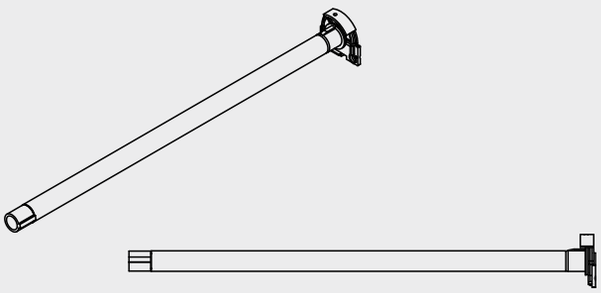
M-RN-021 L/P

Side caps of mosquito's net cassette in box 220, 250

BOX 220,250

ABS

1pcs 0,01kg

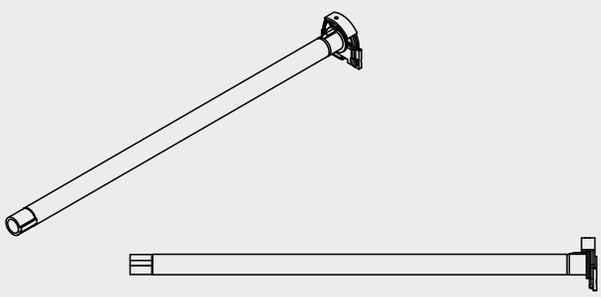


MZN-060
Side cap of the mosquito's net cassette with spring 240 in box 180

MZN-070
Side cap of the mosquito's net cassette with spring 260 in box 180

MZN-080
Side cap of the mosquito's net cassette with spring 310 in box 180

MZN-090
Side cap of the mosquito's net cassette with spring 350 in box 180

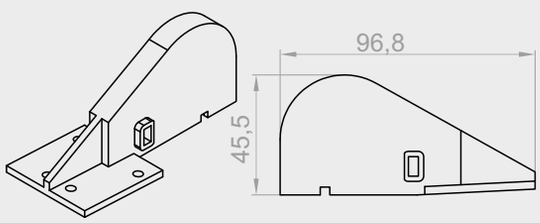


MZN-021
Side cap of the mosquito's net cassette with spring 240 in box 220, 250

MZN-031
Side cap of the mosquito's net cassette with spring 260 in box 220, 250

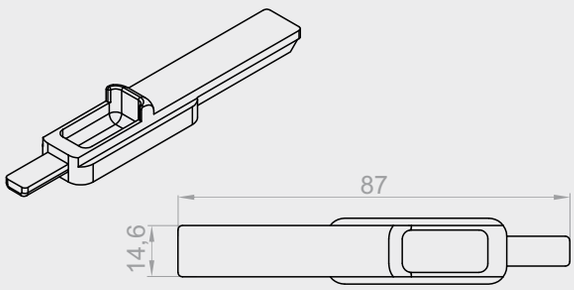
MZN-041
Side cap of the mosquito's net cassette with spring 310 in box 220, 250

MZN-051
Side cap of the mosquito's net cassette with spring 350 in box 220, 250

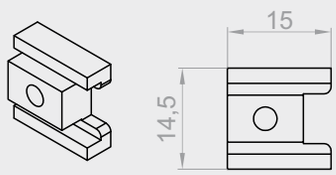


NPD-070
Division of the mosquito's net

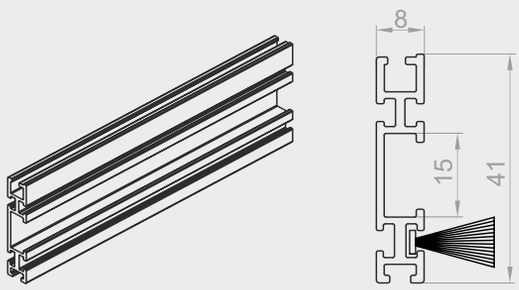
ABS 1pcs 0,02kg



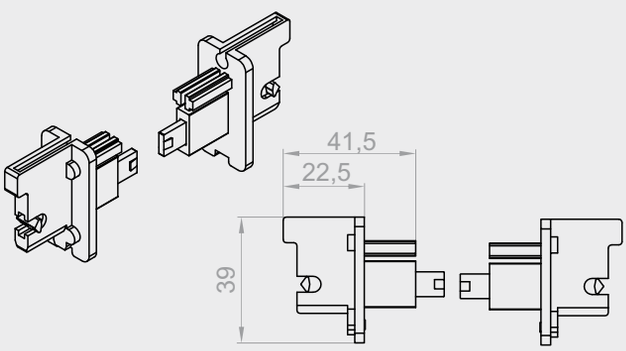
M-RN-050
Latch of the mosquito's net cassette



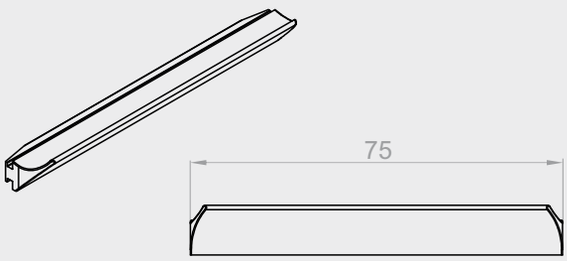
M-RN-060
Latch blockade



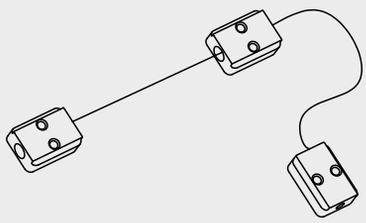
LDM 41x8
Bottom lath of the mosquito's net with
seal SP-5,5X25 G W1, mounted from the front



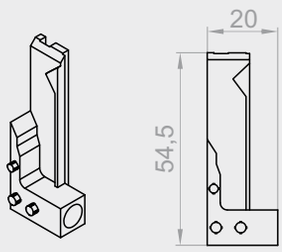
MZW-040 L/P
End caps of the bottom lath with klik-klak blockade
in mosquito's net



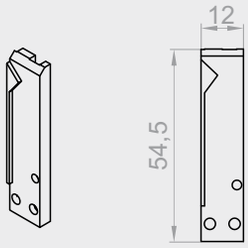
M-RW-080
Handle of the bottom lath of the mosquito's net



M-RW-070
Cord handle of the mosquito'net



M-RN-040
Latch blockade klik-klak of the PVC guide (right)

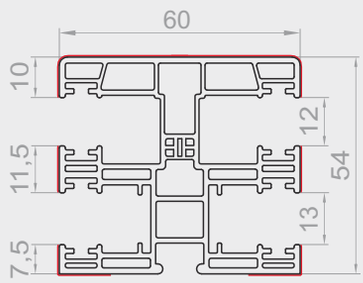


M-RN-030
Latch blockade klik-klak of the pcv guide (left)

Sets of TP1000K system mosquito net components:

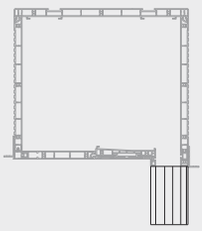
MKN-070 - for box 180, spring 240
MKN-110 - for box 180, spring 260
MKN-150 - for box 180, spring 310
MKN-030 - for box 180, spring 350

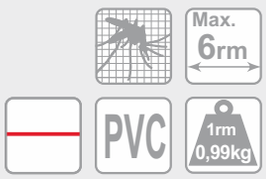
MKN-051 - for box 220, 250, spring 240
MKN-091 - for box 220, 250, spring 260
MKN-131 - for box 220, 250, spring 310
MKN-011 - for box 220, 250, spring 350

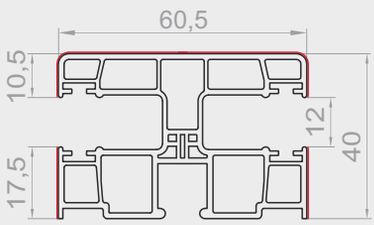


NPR-010

Double PVC guide for mosquito's net

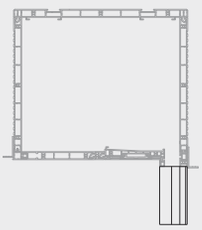


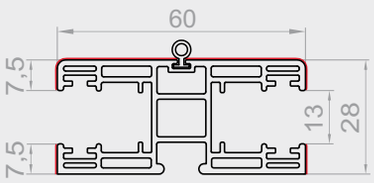




NPR-020

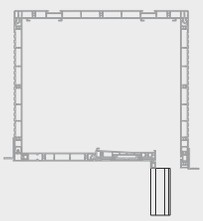
Double PVC guide

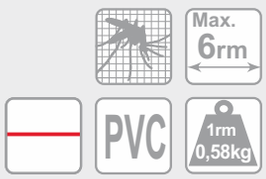


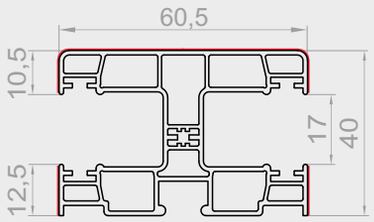


NPR-030

Division PVC guide for mosquito's net with seal KA-44 B

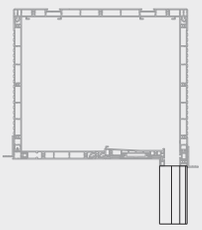


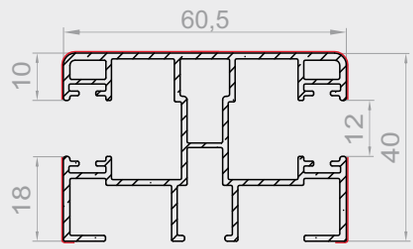




RK-18 M

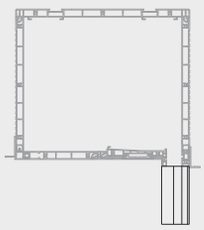
PCV guide for profile PA 52/ PCV 52





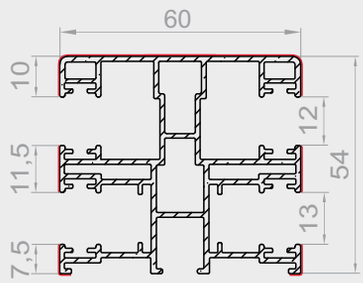
NPR-040

ALU double guide



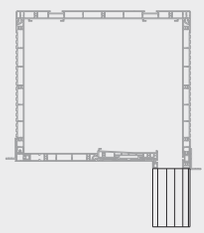
Max. 6rm

1rm 1,08kg



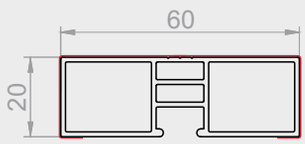
NPR-050

ALU double guide for mosquito's net



Max. 6rm

1rm 1,56kg



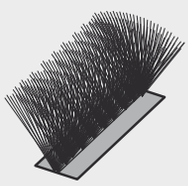
DP-PCV-20

60x20 guide spacer.

Max. 6rm

PVC

1rm 0,37kg



SP-7X6 4P

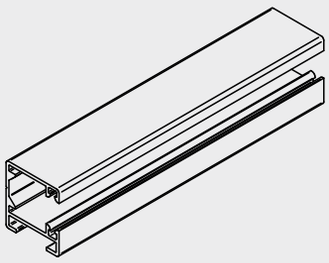
Brush seal for guides

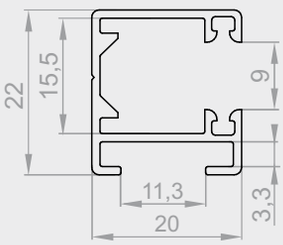
SP-7x9-3P1M-VR

Brush seal for mosquito's net ALU guide

SP-7,5x9-3P1M-VR

Brush seal for mosquito's net PVC guide

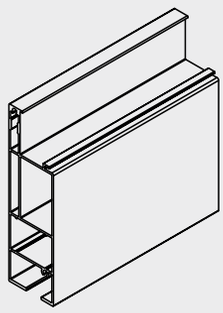


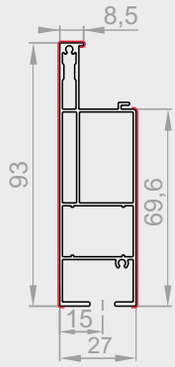


F-PP-20

External blind single guide.

C80 | 1rm 0,259kg | Max. 5,1rm | Z90 | ALU

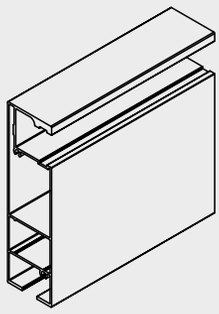


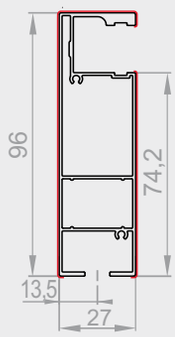


F-FBR-010

Guide adapter for external blind.

C80 | 1rm 0,862kg | Max. 5,1rm | Z90 | ALU

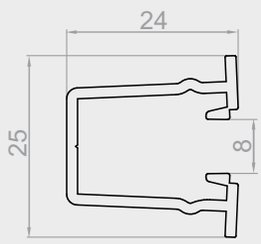




F-FBR-030

Guide for external blind for flush-mounted installation.

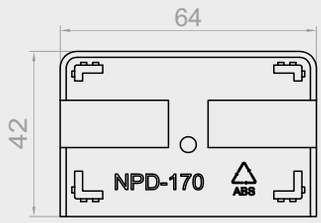
C80 | 1rm 1,008kg | Max. 5,1rm | Z90 | ALU



F-RSC-340-XX

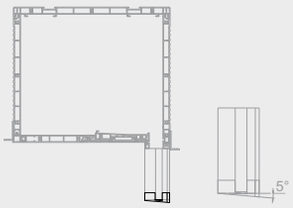
Guide insert for external blind.
Available in colors (XX): 02 - white, 23 - anthracite.

Max. 6rm | PVC | 1rm 0,169kg



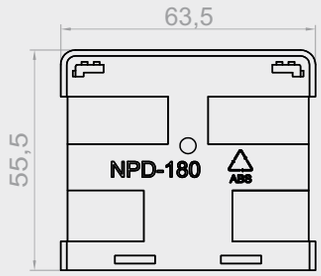
NPD-170

Bottom plug for double guide



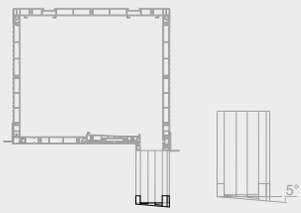
ABS

1pcs
0,01kg



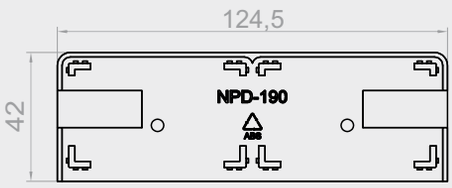
NPD-180

Bottom plug for guide with mosquito net



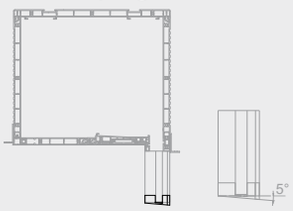
ABS

1pcs
0,012kg



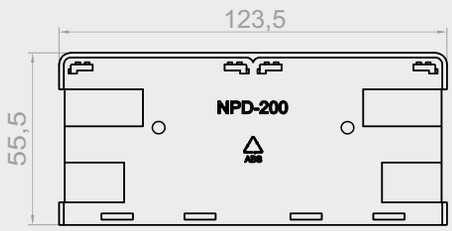
NPD-190

Bottom plug for 2 x double guide



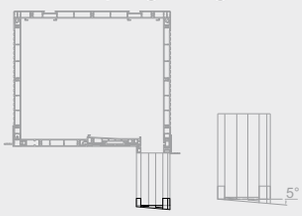
ABS

1pcs
0,017kg



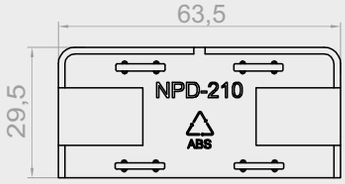
NPD-200

Bottom plug for guide 2 x mosquito net



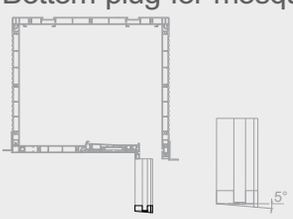
ABS

1pcs
0,022kg



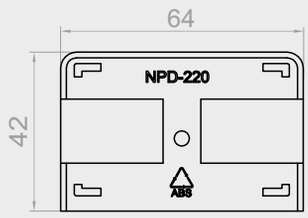
NPD-210

Bottom plug for mosquito net division guide



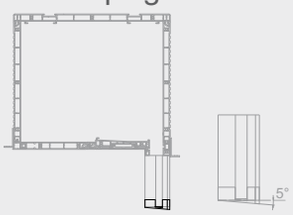
ABS

1pcs
0,006kg



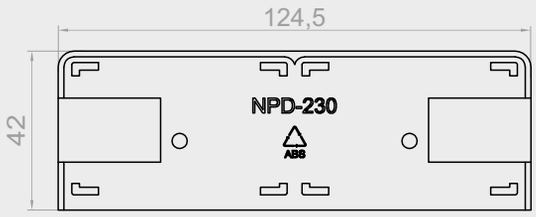
NPD-220

Bottom plug for RK- 18 M guide



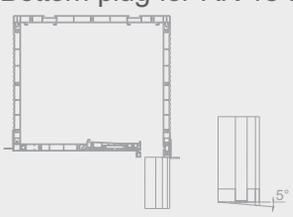
ABS

1pcs
0,01kg



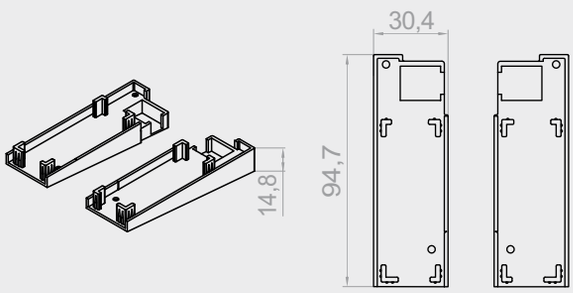
NPD-230

Bottom plug for RK-18 M



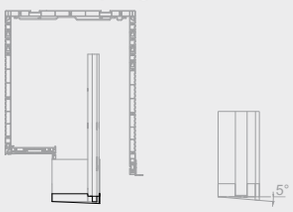
ABS

1pcs
0,02kg



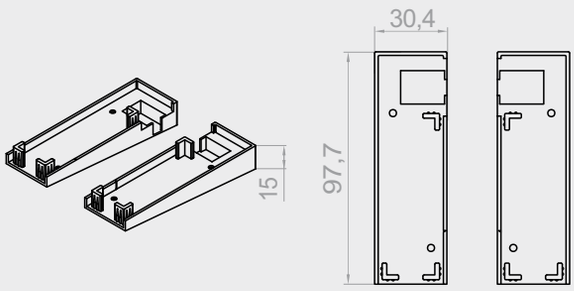
F-FBD-010

Bottom plug of the F-FBR-010 guide adapter.



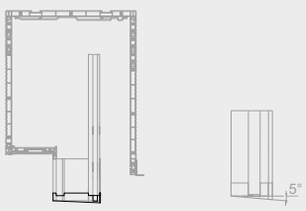
ABS

1pcs
0,008kg



F-FBD-030

Bottom plug of the guide for flush-mounted installation F-FBR-030.

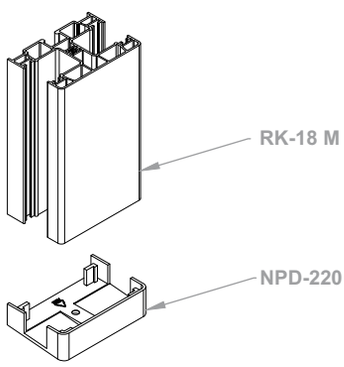


ABS

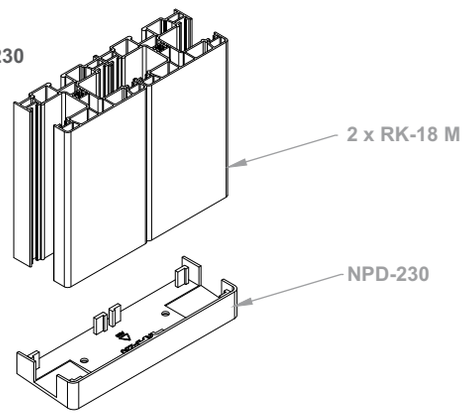
1pcs
0,008kg

View of the bottom end caps with guides:

RK-18 M + NPD-220

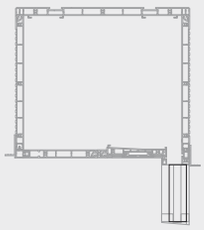


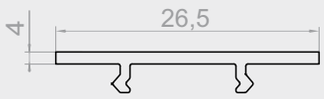
2xRK-18 M + NPD-230



NPD-090

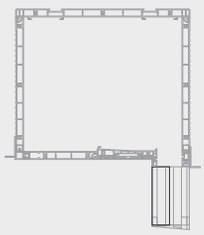
Plug for profile's channel in guide

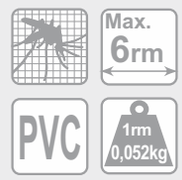




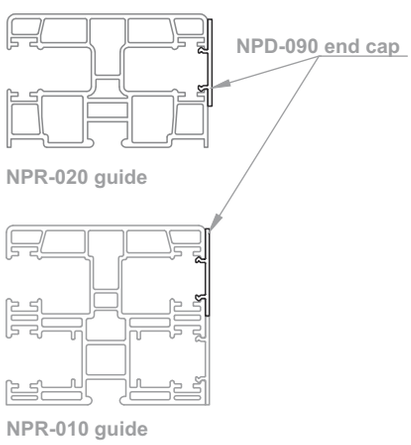
NPD-080

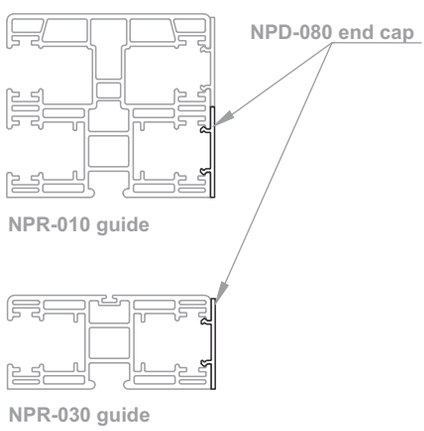
Plug for mosquito net channel in guide

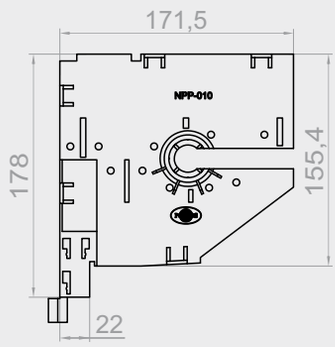




View of guides with the appropriate end caps for guide channels.

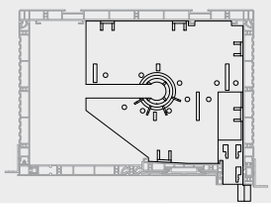






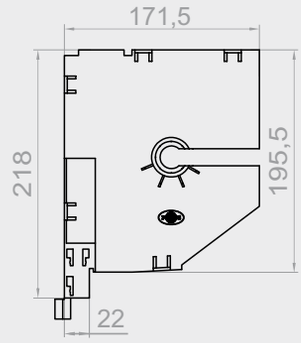
NPP-010

Division of the box 180 for double guide



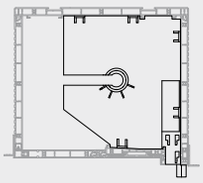
BOX 180

1pcs 0,12kg



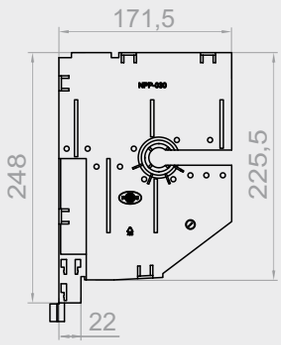
NPP-020

Division of the box 220 for double guide



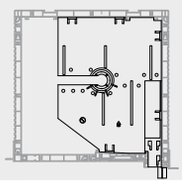
BOX 220

1pcs 0,15kg



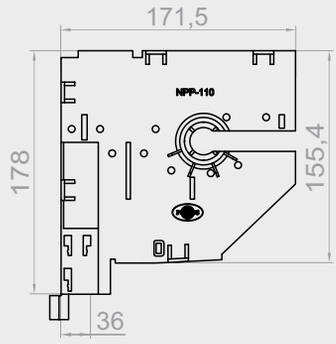
NPP-030

Division of the box 250 for double guide



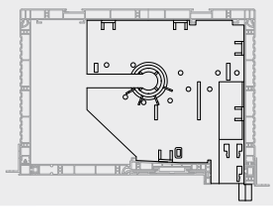
BOX 250

1pcs 0,17kg



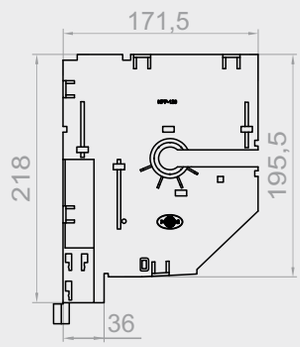
NPP-110

Division of the box 180 with mosquito net for double guide



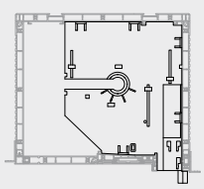
BOX 180

1pcs 0,13kg



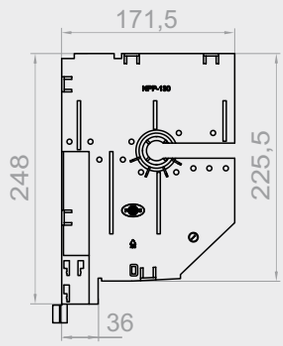
NPP-120

Division of the box 220 with mosquito net for double guide



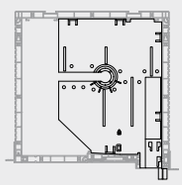
BOX 220

1pcs 0,15kg



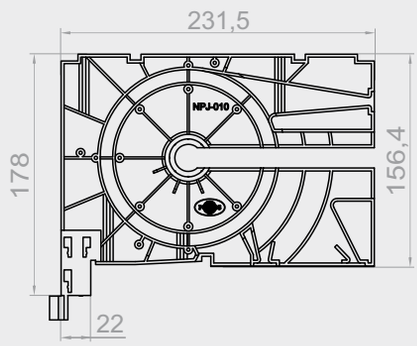
NPP-130

Division of the box 250 with mosquito net for double guide



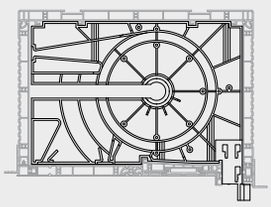
BOX 250

1pcs 0,16kg



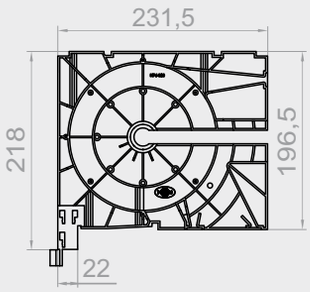
NPJ-010

Division of the box 180 for two single guides



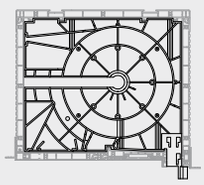
BOX 180

1pcs 0,38kg



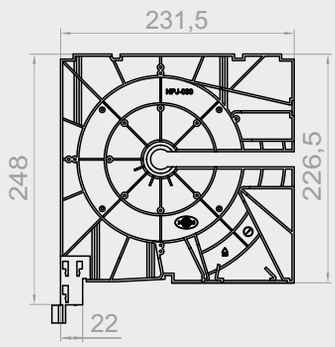
NPJ-020

Division of the box 220 for two single guides



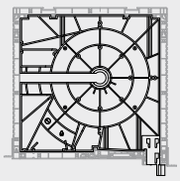
BOX 220

1pcs 0,41kg



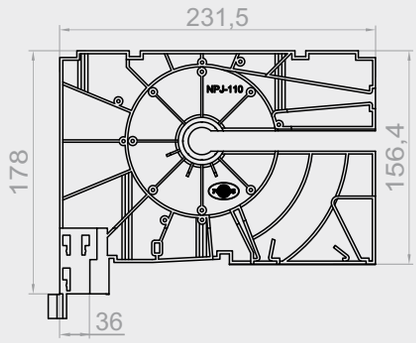
NPJ-030

Division of the box 250 for two single guides



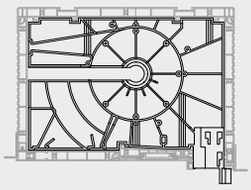
BOX 250

1pcs 0,49kg



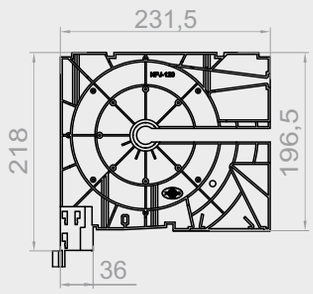
NPJ-110

Division of the box 180 with mosquito net for two single guides



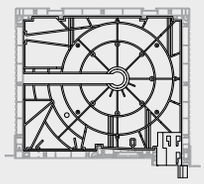
BOX 180

1pcs 0,36kg



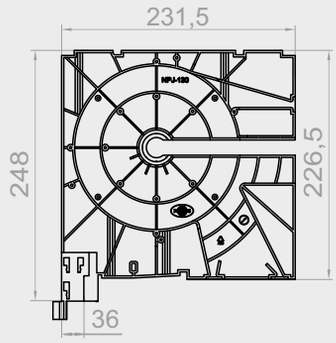
NPJ-120

Division of the box 220 with mosquito net for two single guides



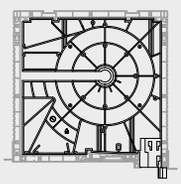
BOX 220

1pcs 0,41kg



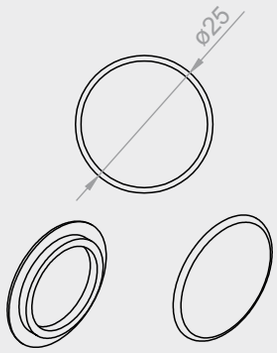
NPJ-130

Division of the box 250 with mosquito net for two single guides



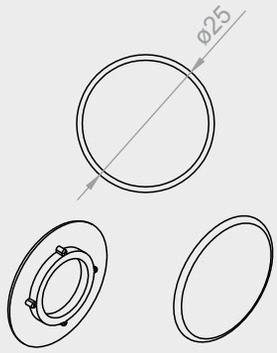
BOX 250

1pcs 0,5kg



NPD-240 L

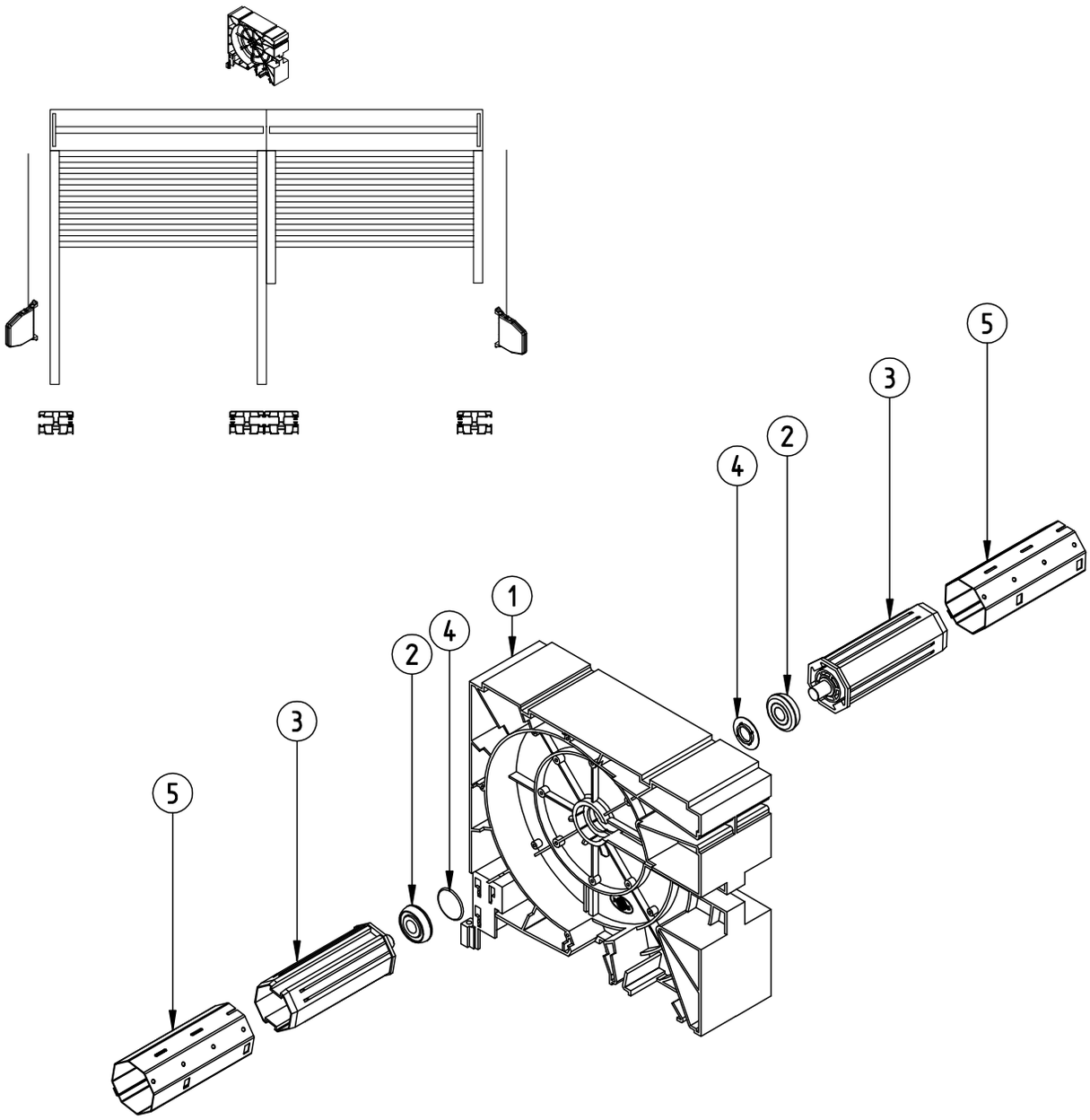
Socket plug for npj division- part left



NPD-240 P

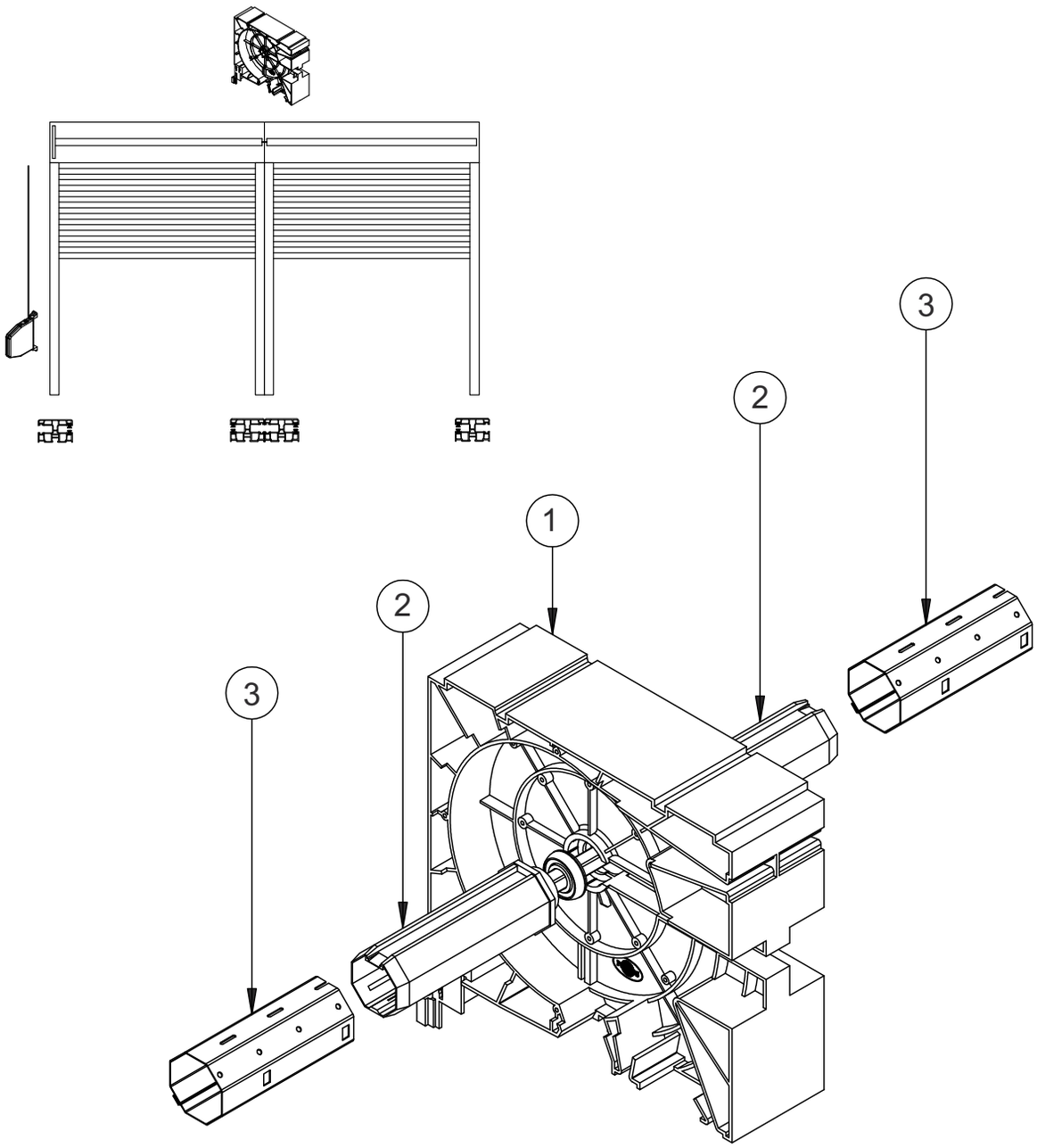
Socket plug for npj division- part right

Division for two single guides in shutter box with independent motor.



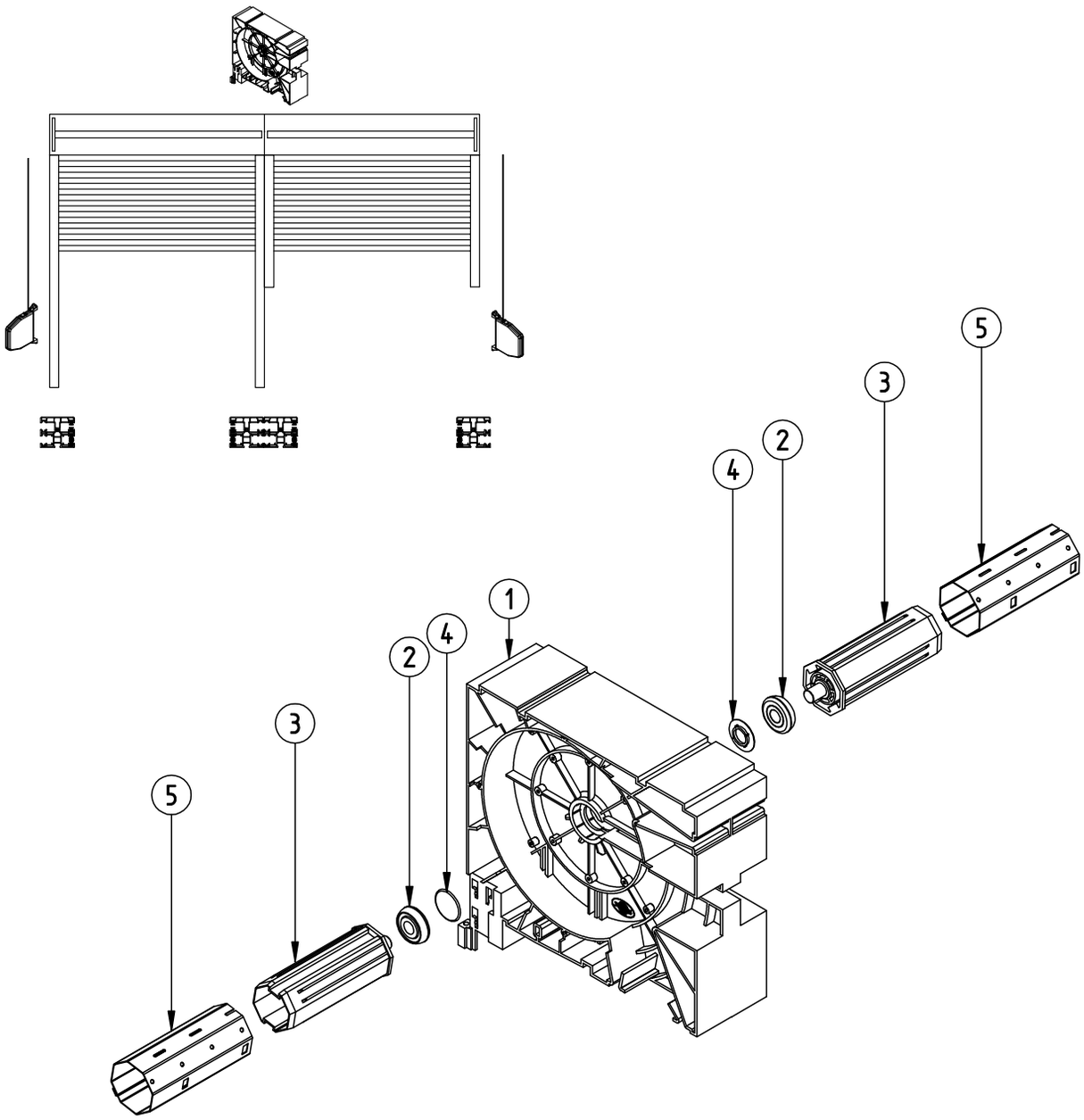
1. NPJ-010/020/030	Division of the box 180/220/250 for two single guides
2. LO 28/10	28/10 bearing for PVC shutter boxes for pipe 40
LO 28/12 PCV	28/10 bearing for PVC shutter boxes for pipe 60
3. OBS-40-PVC	Mounting cap fi-40 for PVC shutter box
OBS-60-PVC	Mounting cap fi-60 for PVC shutter box
4. NPD-240 L/P.	Socket plug for NPJ division for tube 60
5. SW 40	Octagonal pipe 40
SW 60	Octagonal pipe 60

Division for two single guides in shutter box with dependent motor.



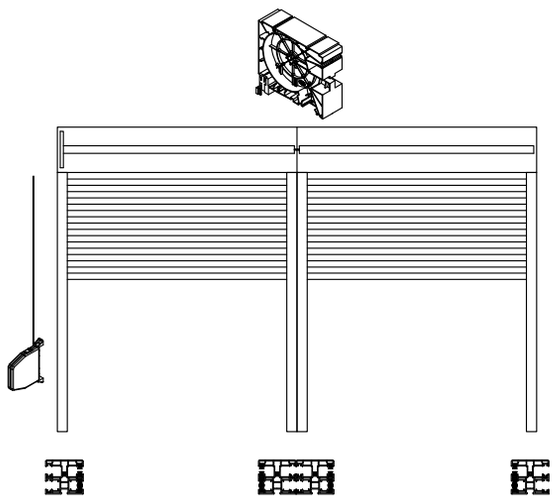
1. NPJ-010/020/030	Division of the shutter box 180/220/250 for two single guides
2. RKZ 34	Round pin for pipes fi-40
RKZ 35	Round pin for pipes fi-60
3. SW 40	Octagonal pipe 40
SW 60	Octagonal pipe 60

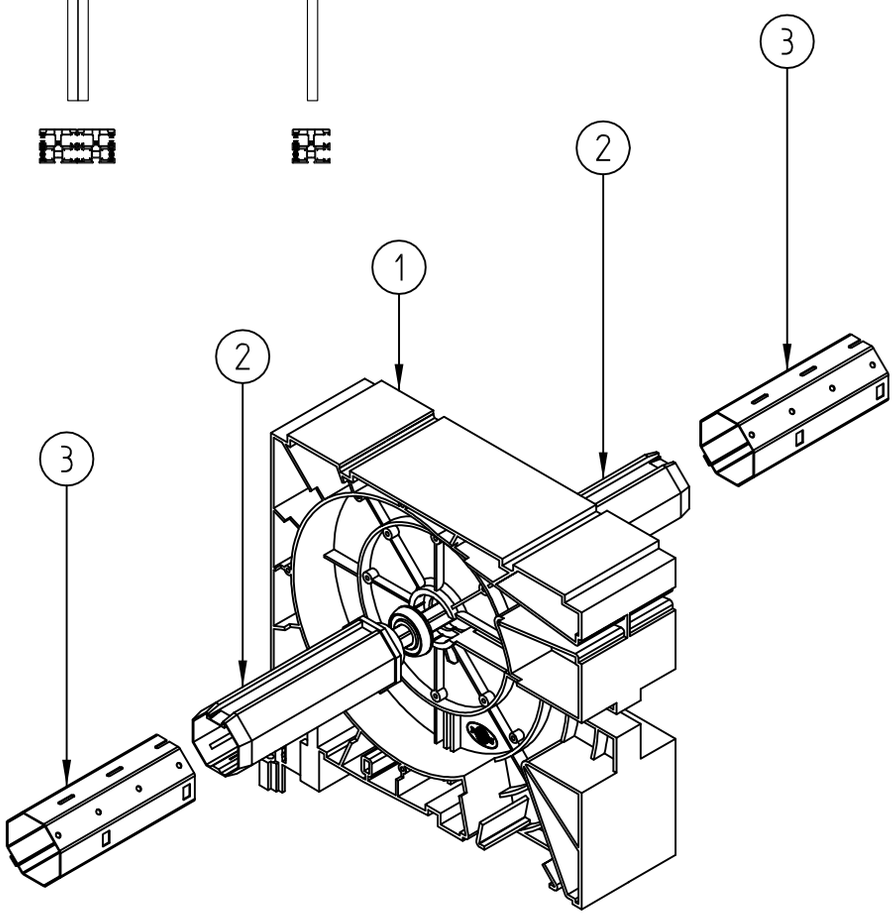
Division for two single guides in shutter box with mosuito net and independent motor



1.	NPJ-110/120/130	Division of the shutter box 180/220/250 with mosquito-net for two single guides
2.	LO 28/10	Bearing lo 28/10 for PVC shutter boxes
	LO 28/12 PCV	Bearing lo 28/12 for PVC shutter boxes
3.	OBS-40-PVC	Mounting cap fi-40 for PVC shutter box
	OBS-60-PVC	Mounting cap fi-60 for PVC shutter box
4.	NPD-240 L/P.	Socket plug for npj division for tube 60
5.	SW 40	Octagonal pipe 40
	SW 60	Octagonal pipe 60

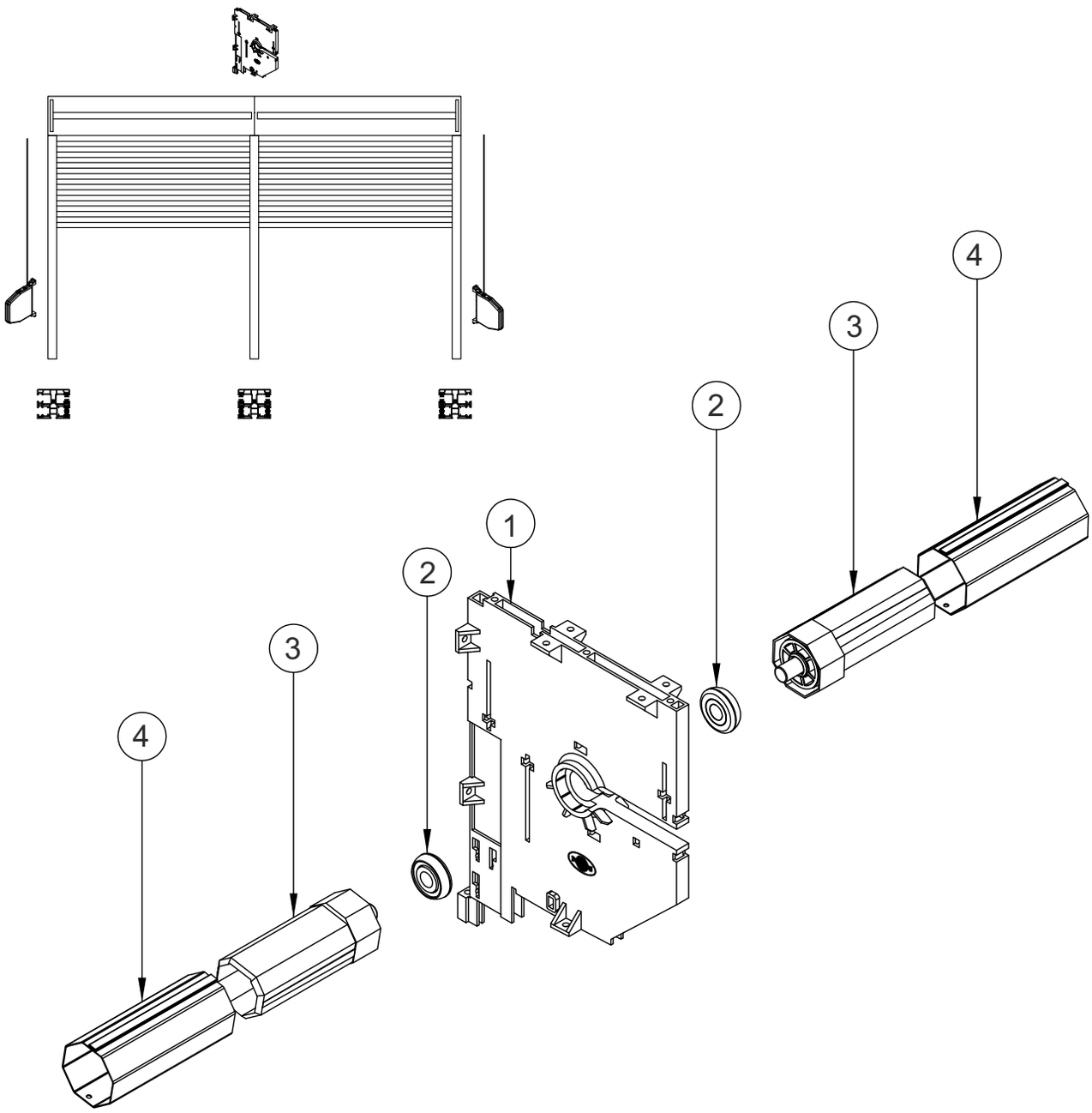
Division for the two single guides with mosquito net with motor





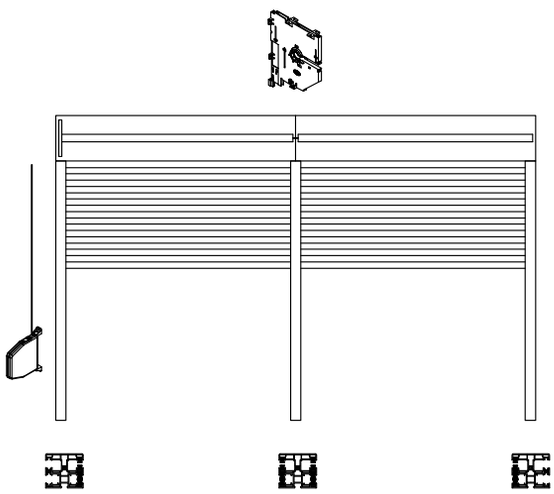
1. NPJ-010/020/030	Division for mosquito-net shutter box 180/220/250 for two single guides
2. RKZ 34	Round pin for pipes fi-40
RKZ 35	Round pin for pipes fi-60
3. SW 40	Octagonal pipe 40
SW 60	Octagonal pipe 60

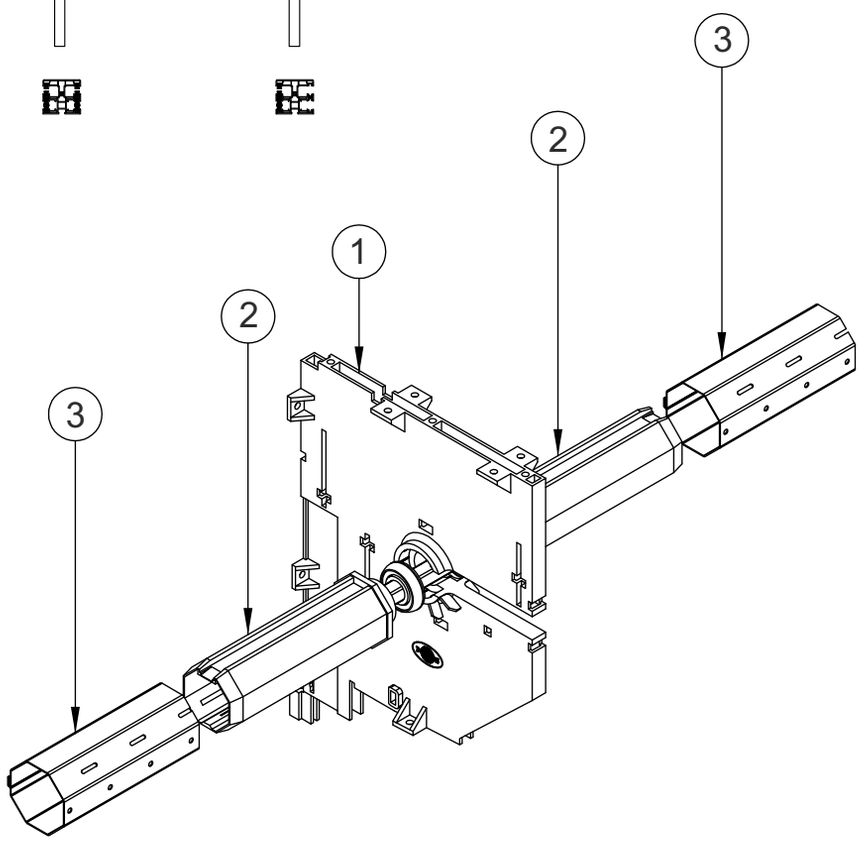
Division for the double guide with mosquito net with independent motor



1. NPP-110/120/130	Division for single guides with mosquito net
2. LO 28/10	Bearing lo 28/10 for PVC shutter boxes
LO 28/12 PCV	Bearing lo 28/12 for PVC shutter boxes
3. OBS-40-PVC	Mounting cap fi-40 for PVC shutter box
OBS-60-PVC	Mounting cap fi-60 for PVC shutter box
4. SW 40	Octagonal pipe 40
SW 60	Octagonal pipe 60

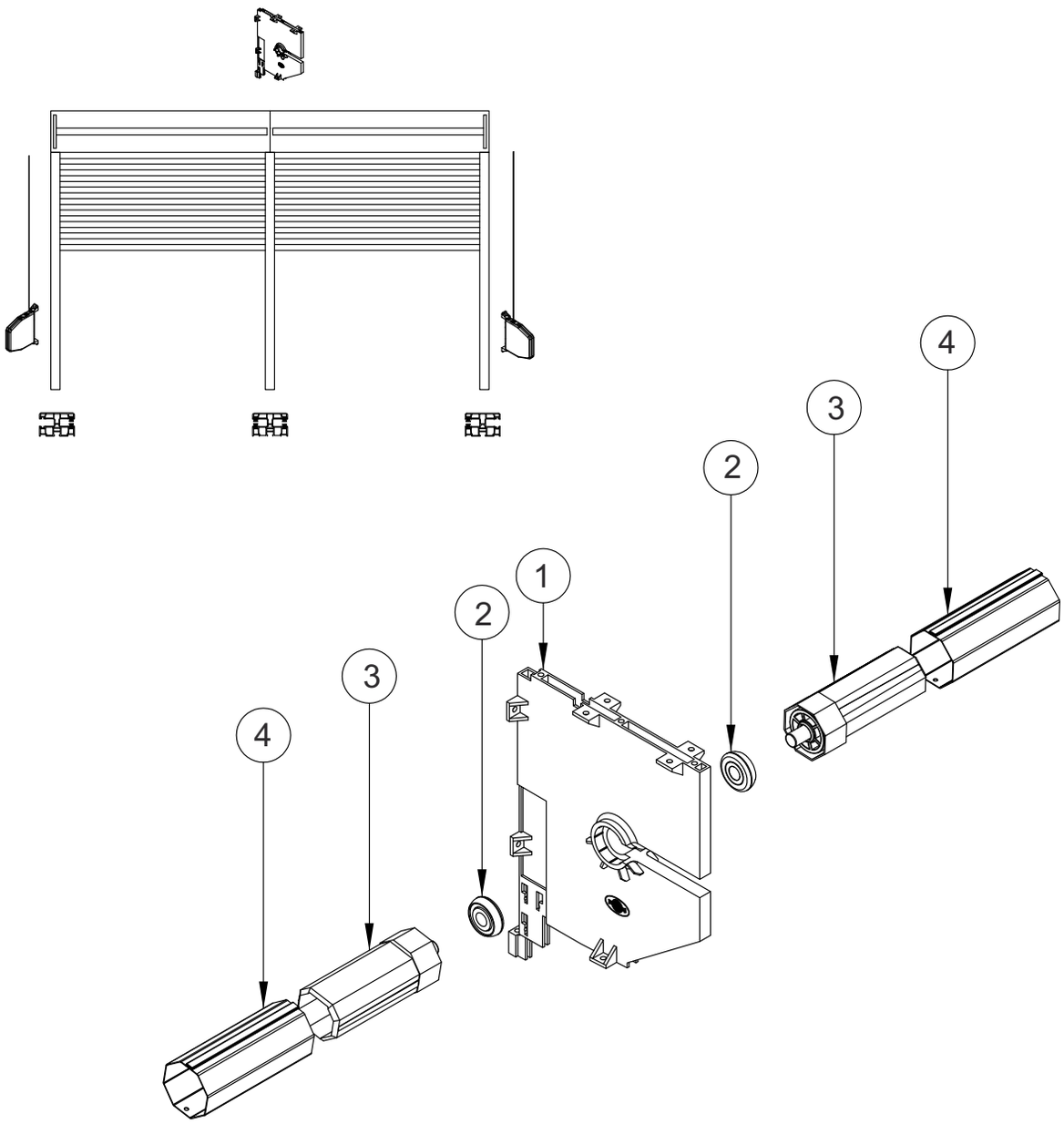
Division for the double guide with mosquito net with dependent motor





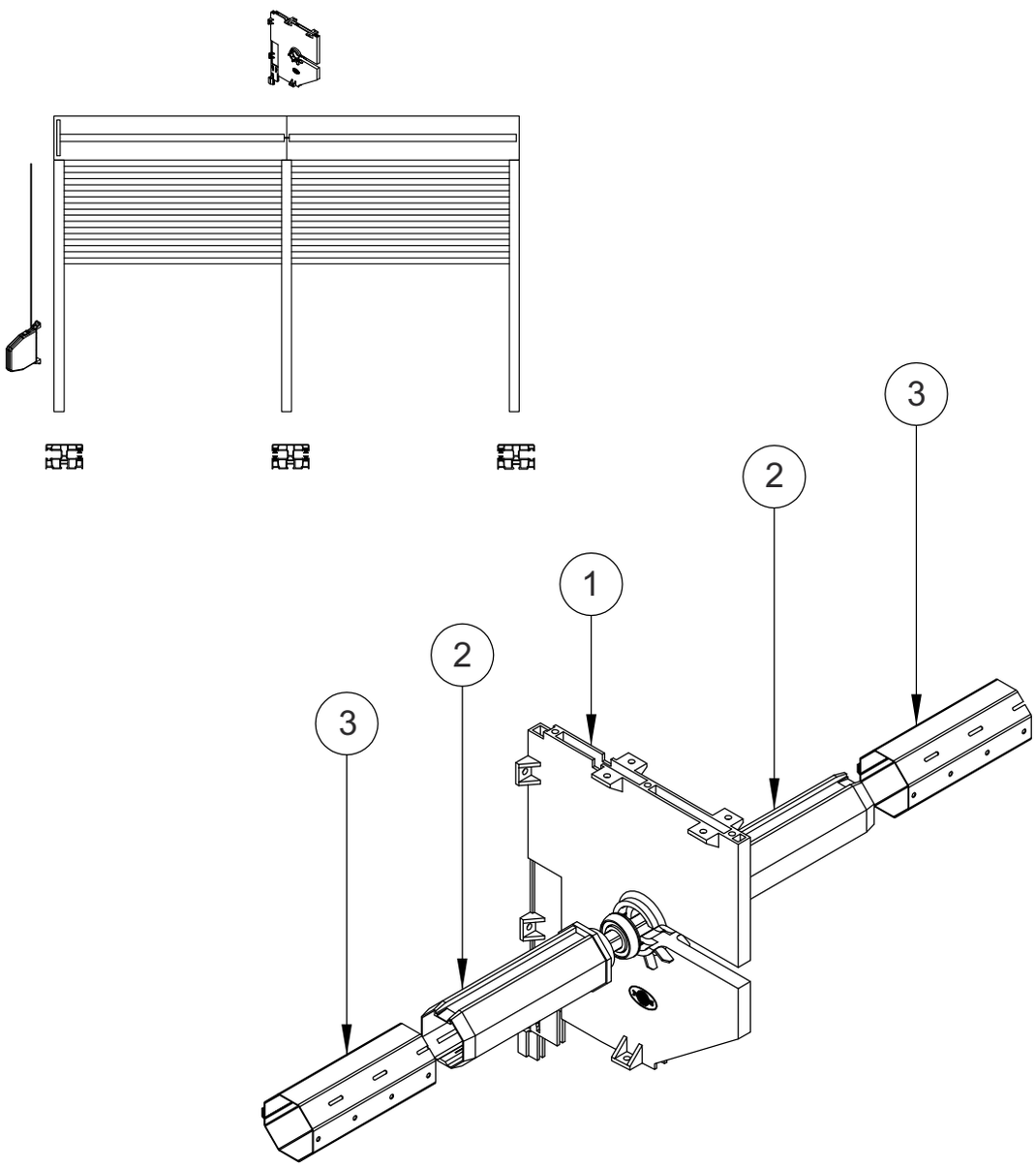
1. NPP-110/120/130	Division of the box 220 for double guide with mosquito net
2. RKZ 34	Round pin for pipes fi-40
RKZ 35	Round pin for pipes fi-60
3. SW 40	Octagonal pipe 40
SW 60	Octagonal pipe 60

Division for double guide in roller shutter with independent motor



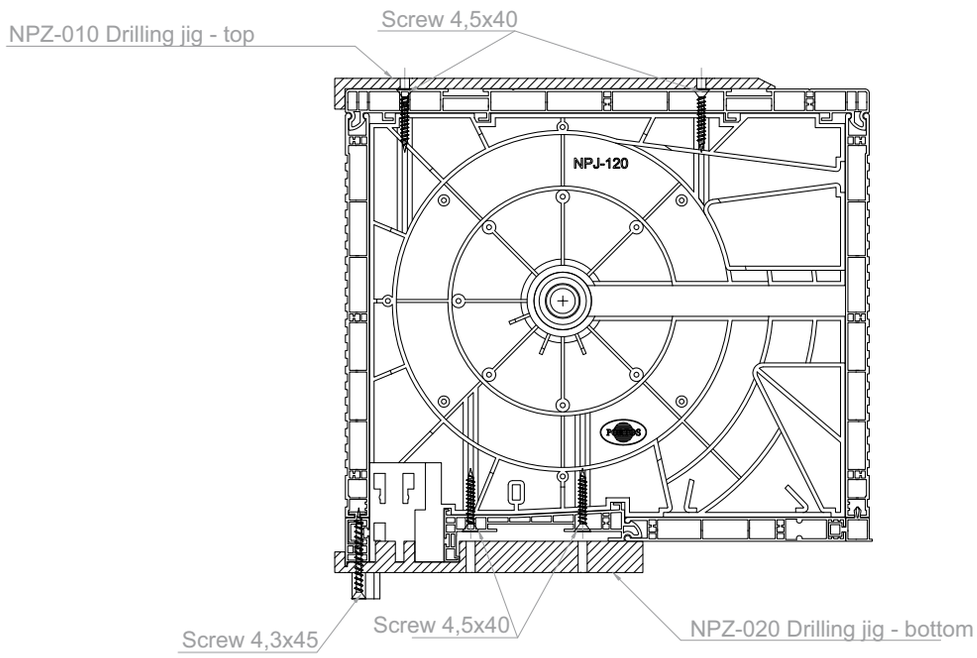
1. NPP-010/020/030	Division of the shutter box 220 for double guide
2. LO 28/10	Bearing lo 28/10 for PVC shutter boxes
LO 28/12 PCV	Bearing lo 28/12 for PVC shutter boxes
3. OBS-40-PVC	Mounting cap fi-40 for PVC shutter box
OBS-60-PVC	Mounting cap fi-60 for PVC shutter box
4. SW 40	Octagonal pipe 40
SW 60	Octagonal pipe 60

Division for the double guide in roller shutter with dependent motor

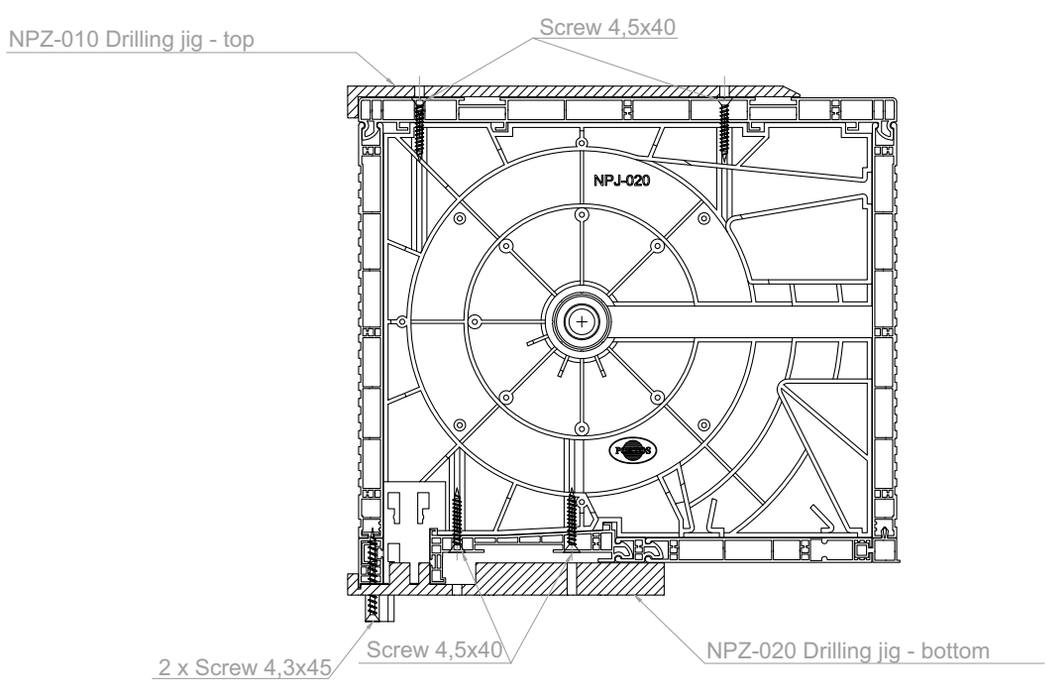


1. NPP-010/020/030	The division of the shutter box 220 for double guide
2. RKZ 34	Round pin for pipes fi-40
RKZ 35	Round pin for pipes fi-60
3. SW 40	Octagonal pipe 40
SW 60	Octagonal pipe 60

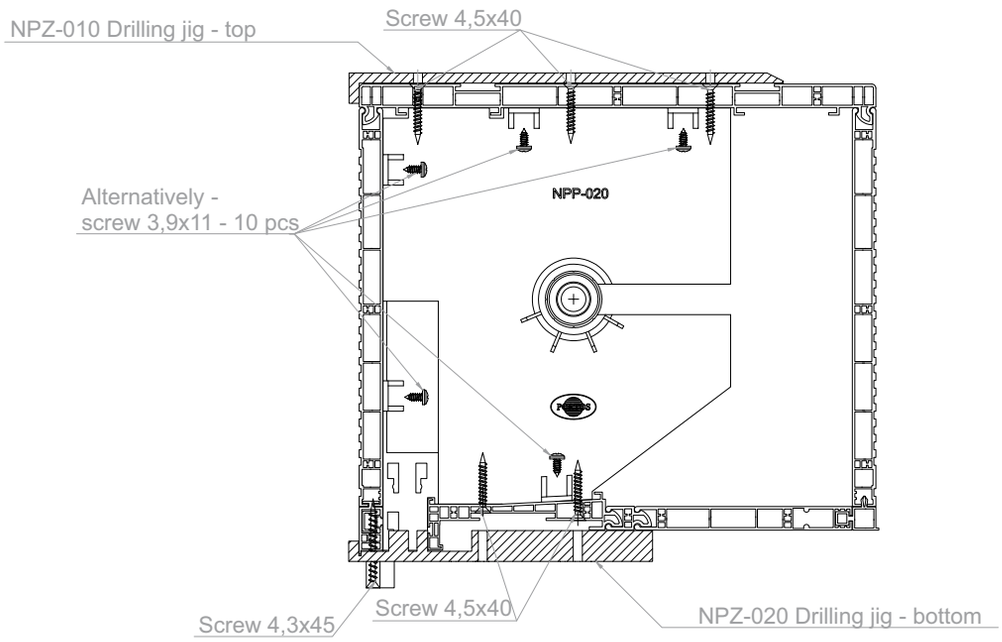
Assembly of the division NPJ-020



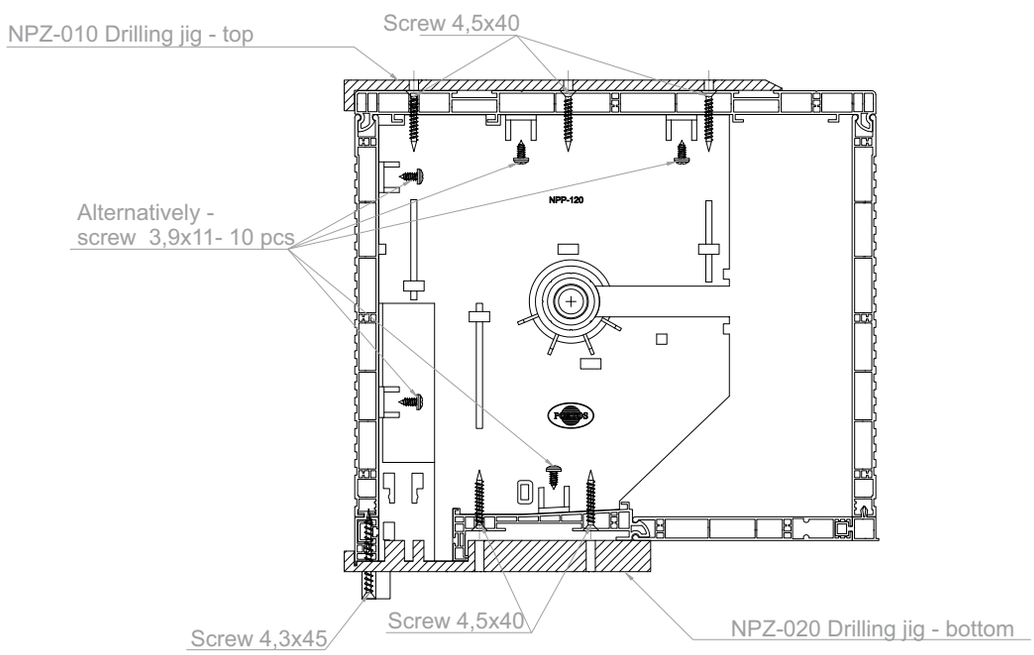
Assembly of the division NPJ-120



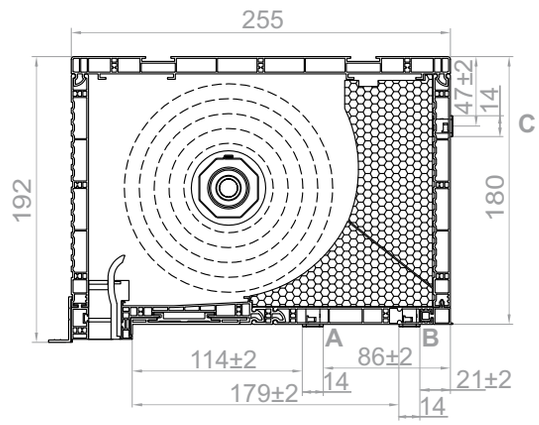
Assmebly of the division NPP-020

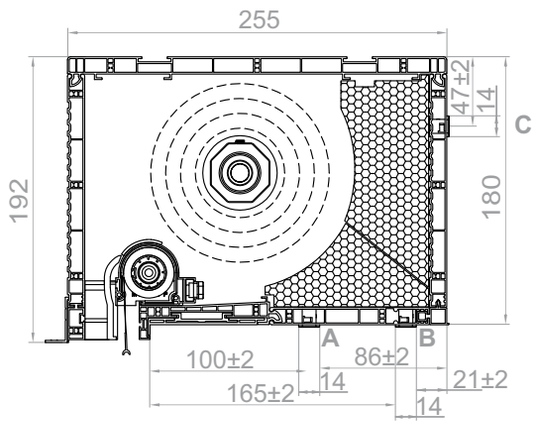


Assembly of the division NPP-120

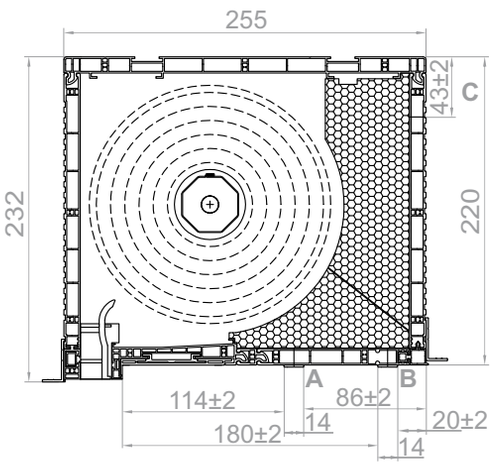


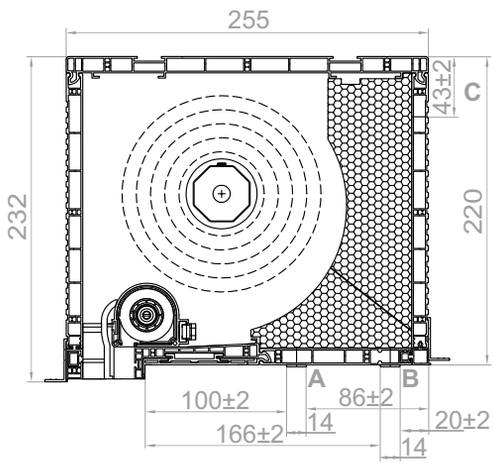
Entry of the tape- box 180



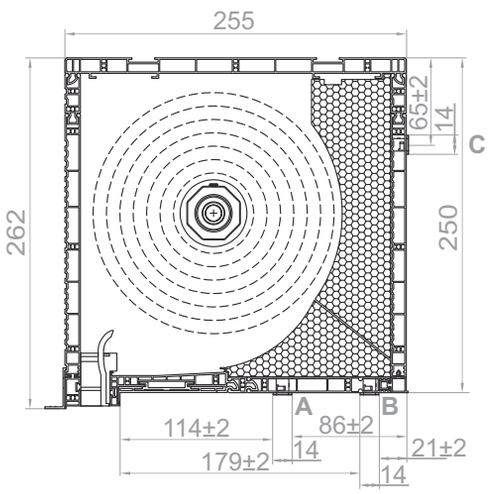


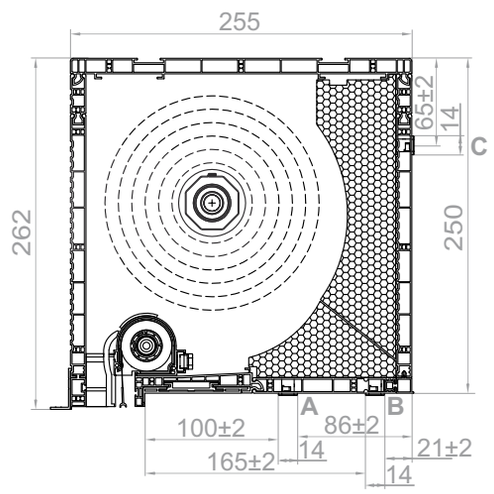
Entry of the tape- box 220



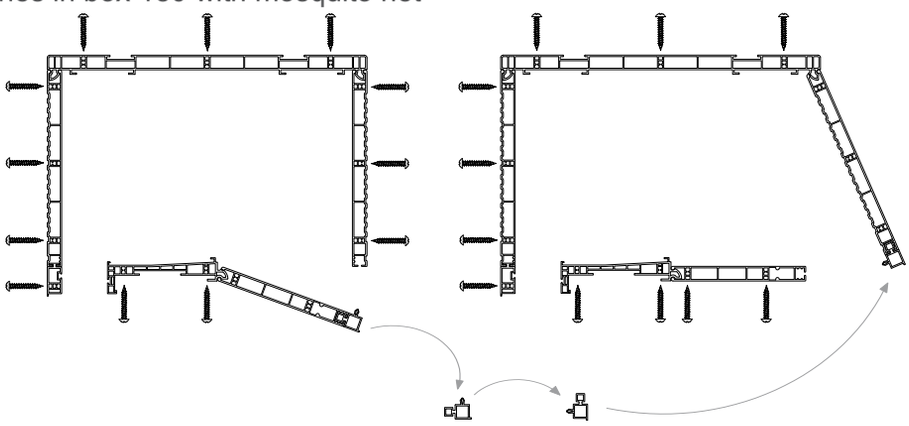


Entry of the tape- box 250

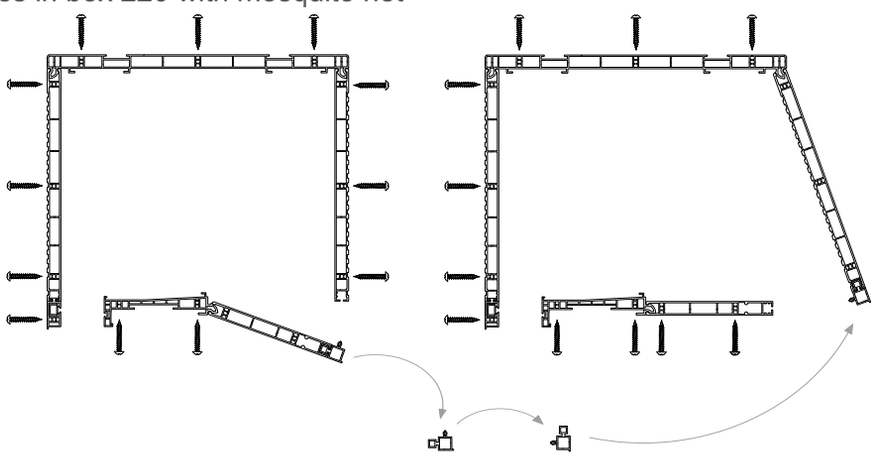




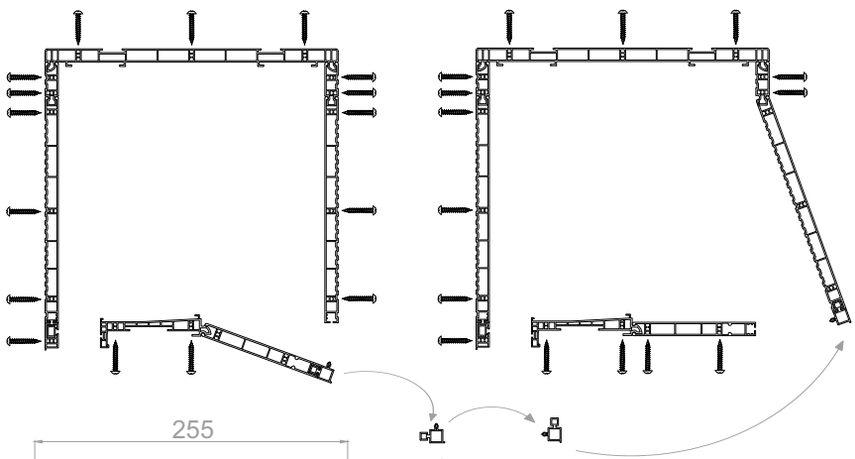
Revision hatches in box 180 with mosquito net

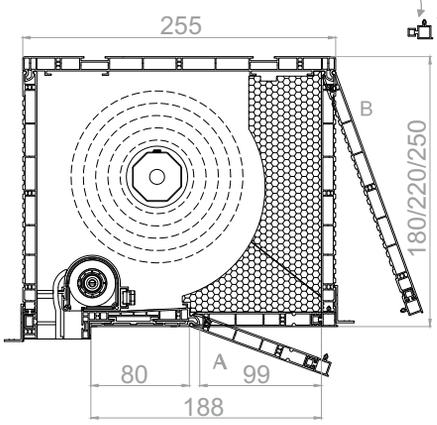


Revision hatches in box 220 with mosquito net

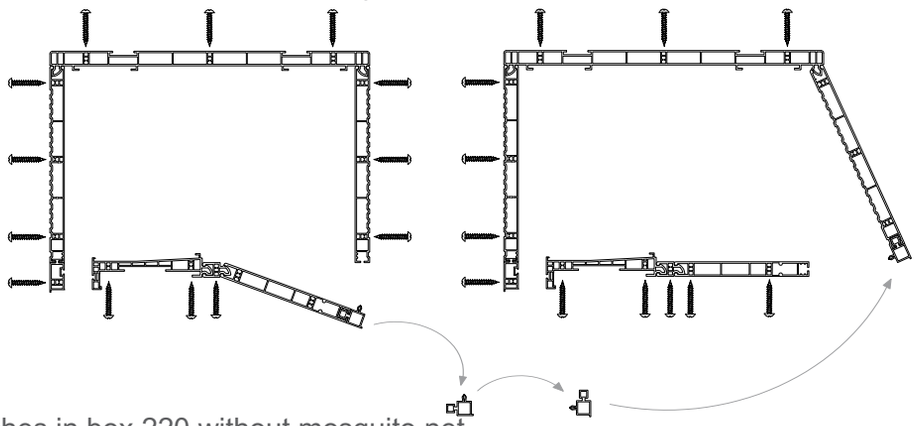


Revision hatches in box 250 with mosquito net

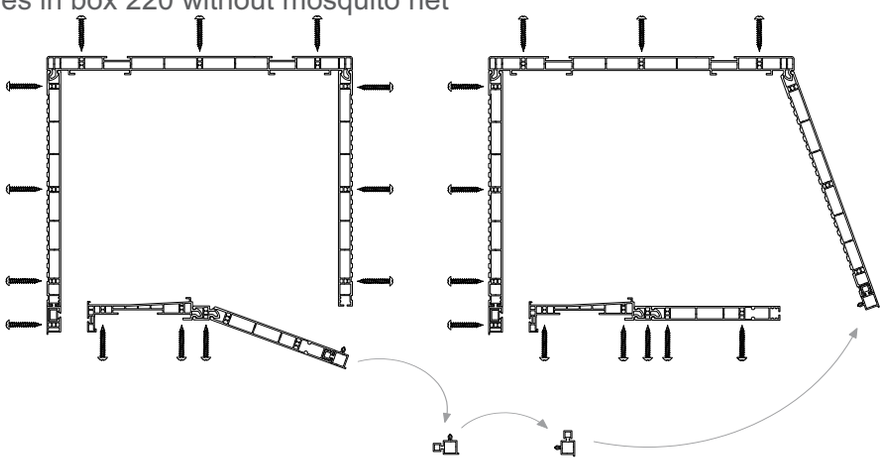




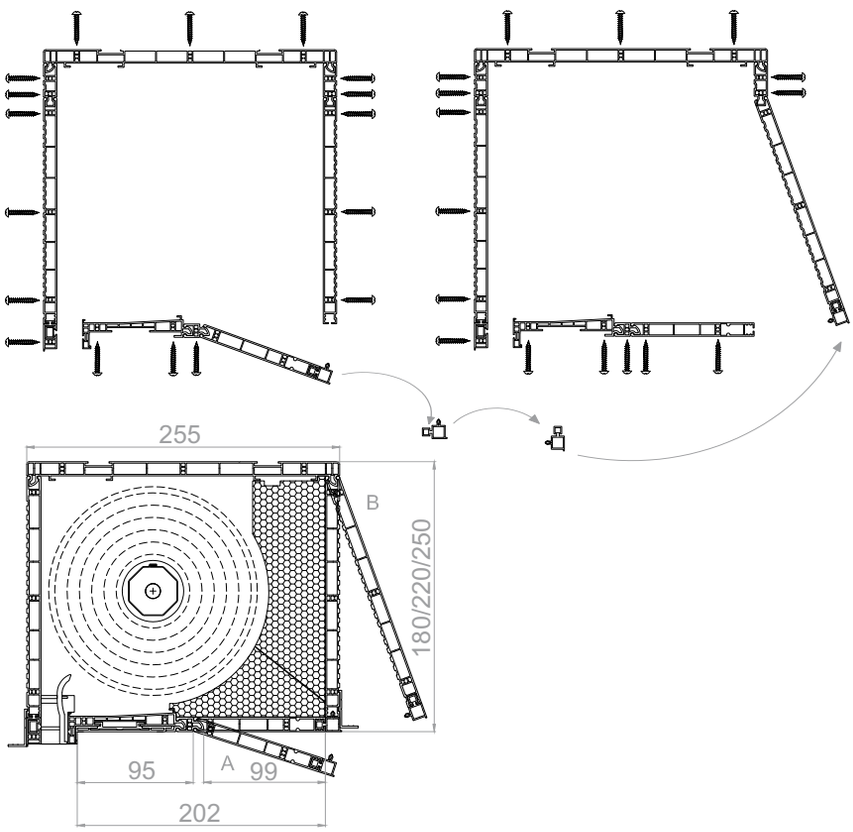
Revision hatches in box 180 without mosquito net



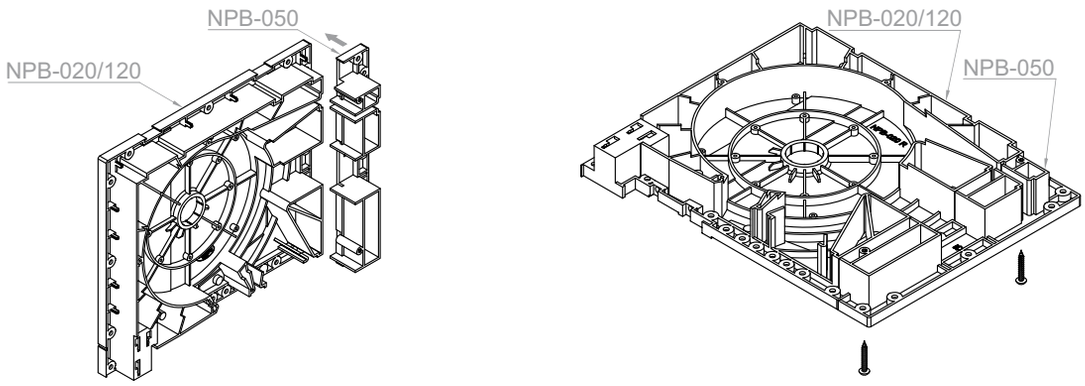
Revision hatches in box 220 without mosquito net



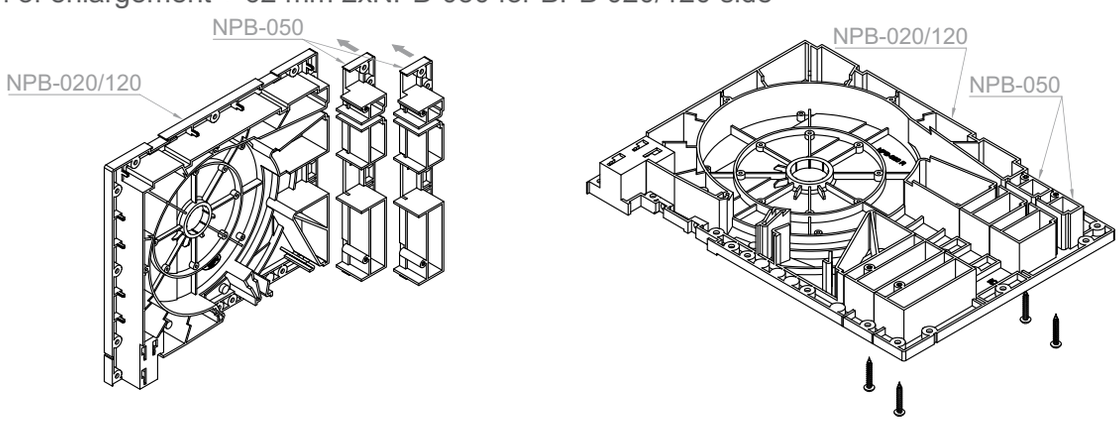
Revision hatches in box 250 without mosquito net



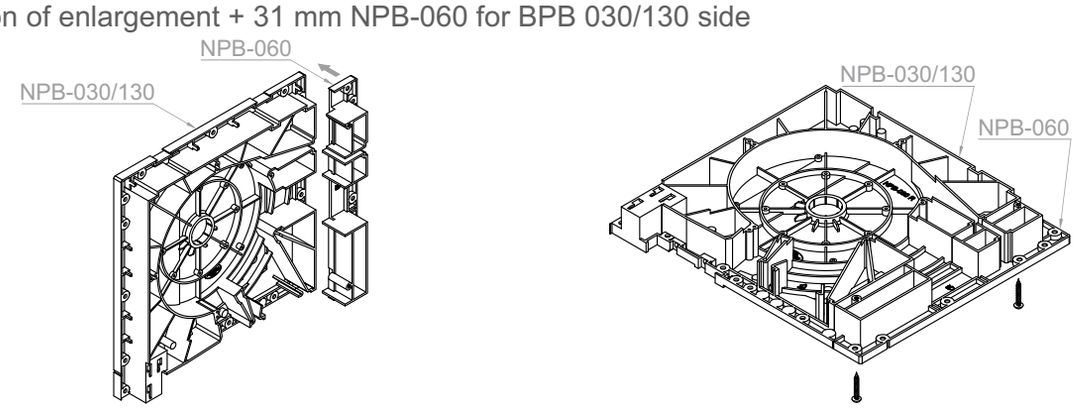
Installation of enlargement + 31 mm NPB-050 for BPB 020/120 side



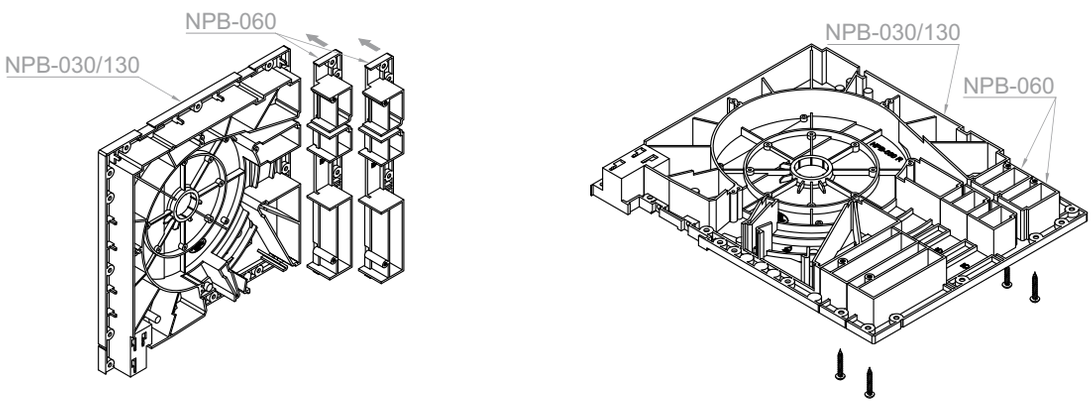
Installation of enlargement + 62 mm 2xNPB-050 for BPB 020/120 side



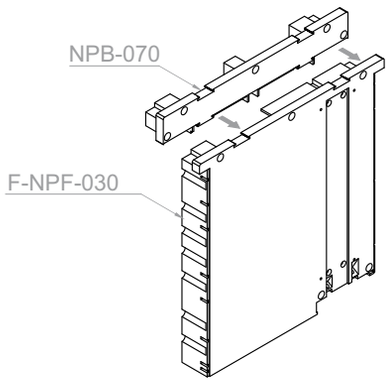
Installation of enlargement + 31 mm NPB-060 for BPB 030/130 side

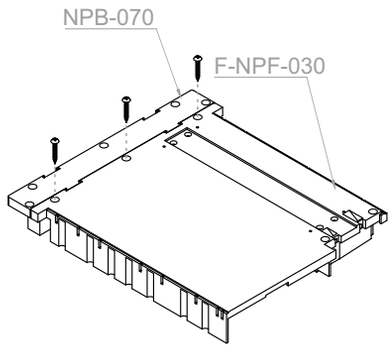


Installation of enlargement +62 mm 2xNPB-060 for BPB 030/130 side

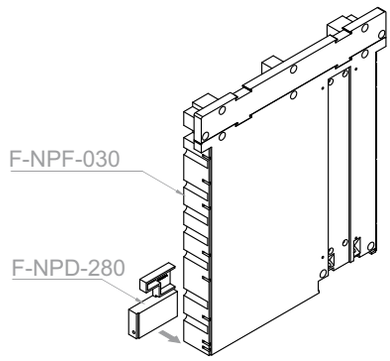


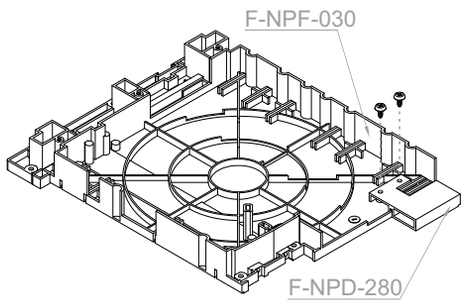
Installation of the NPB-070 raising to the F-NPF-030 side.



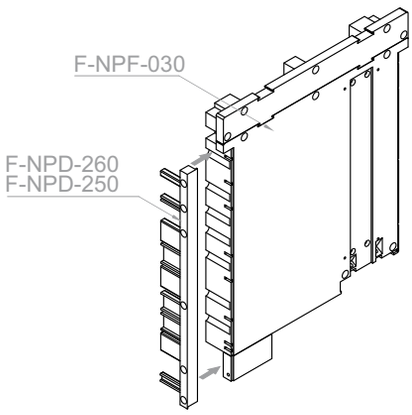


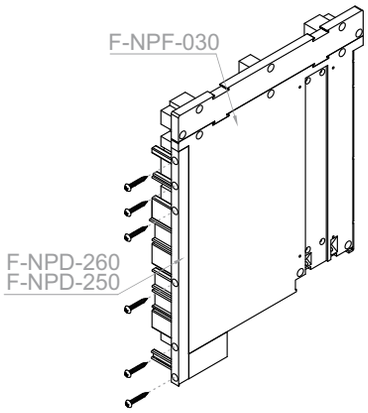
Installation of the insert lowering the F-NPD-280 side to the F-NPF-030 side.



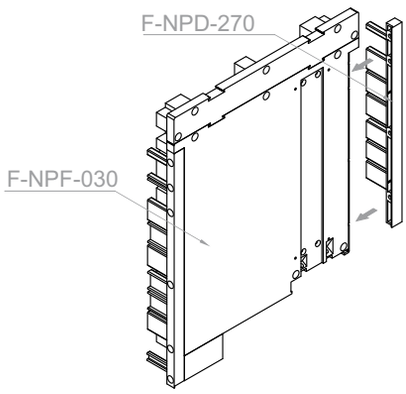


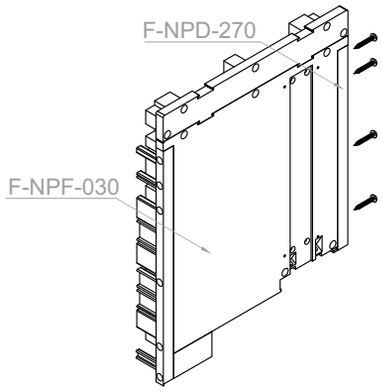
Installation of the end cap of the outer side profile for the box F-NPD-260, F-NPD-250 to the F-NPF-030 side.



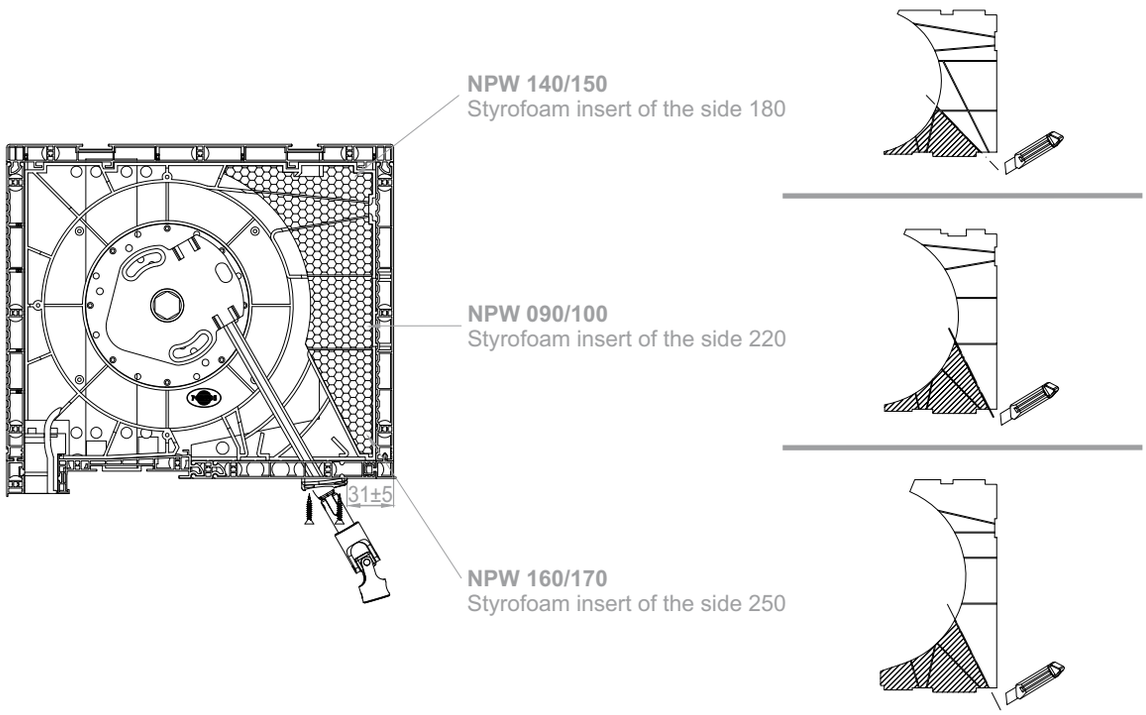


Installation of the end cap of the inner side profile F-NPD-270 to the F-NPF 030 side.



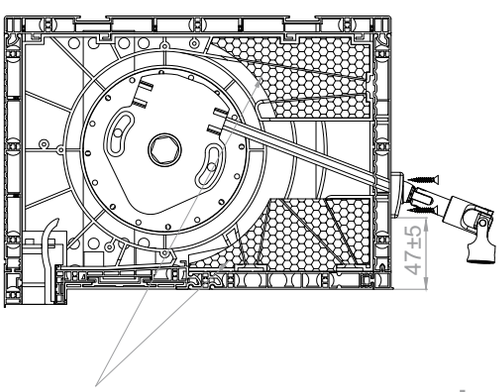


Installation of the kardan crank - **A** output, 180, 220, 250 box

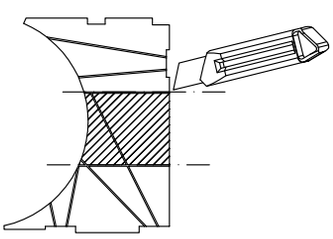


Installation of the kardan crank - **B** output

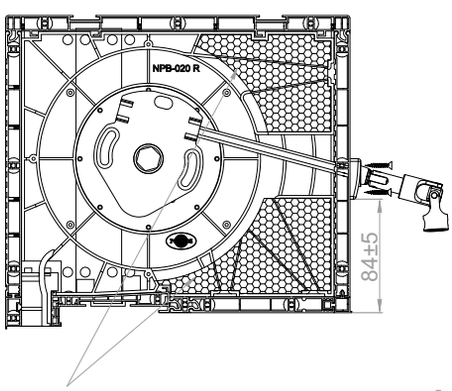
Box 180



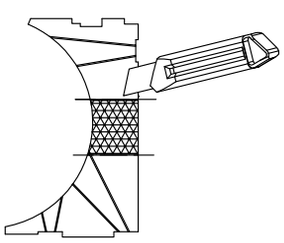
NPW 140/150
Styrofoam insert of the side 180



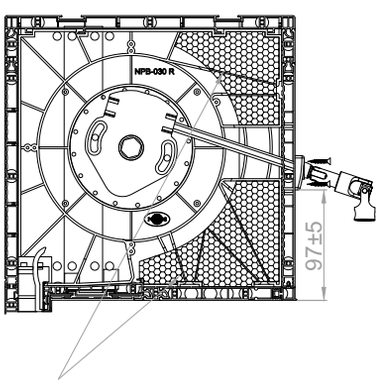
Box 220



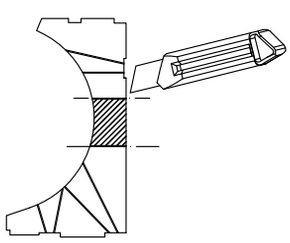
NPW 090/100
Styrofoam insert of the side 220



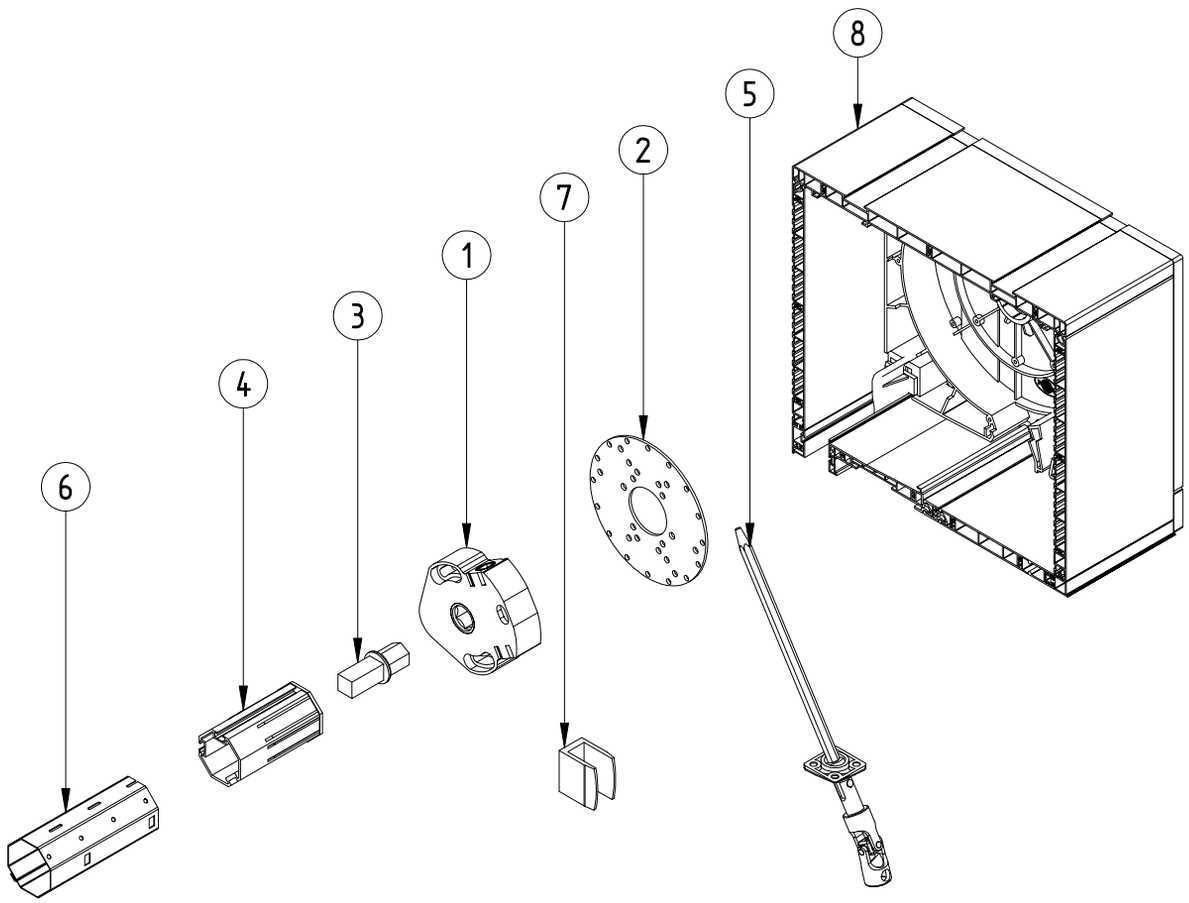
Box 250



NPW 160/170
Styrofoam insert of the side 250

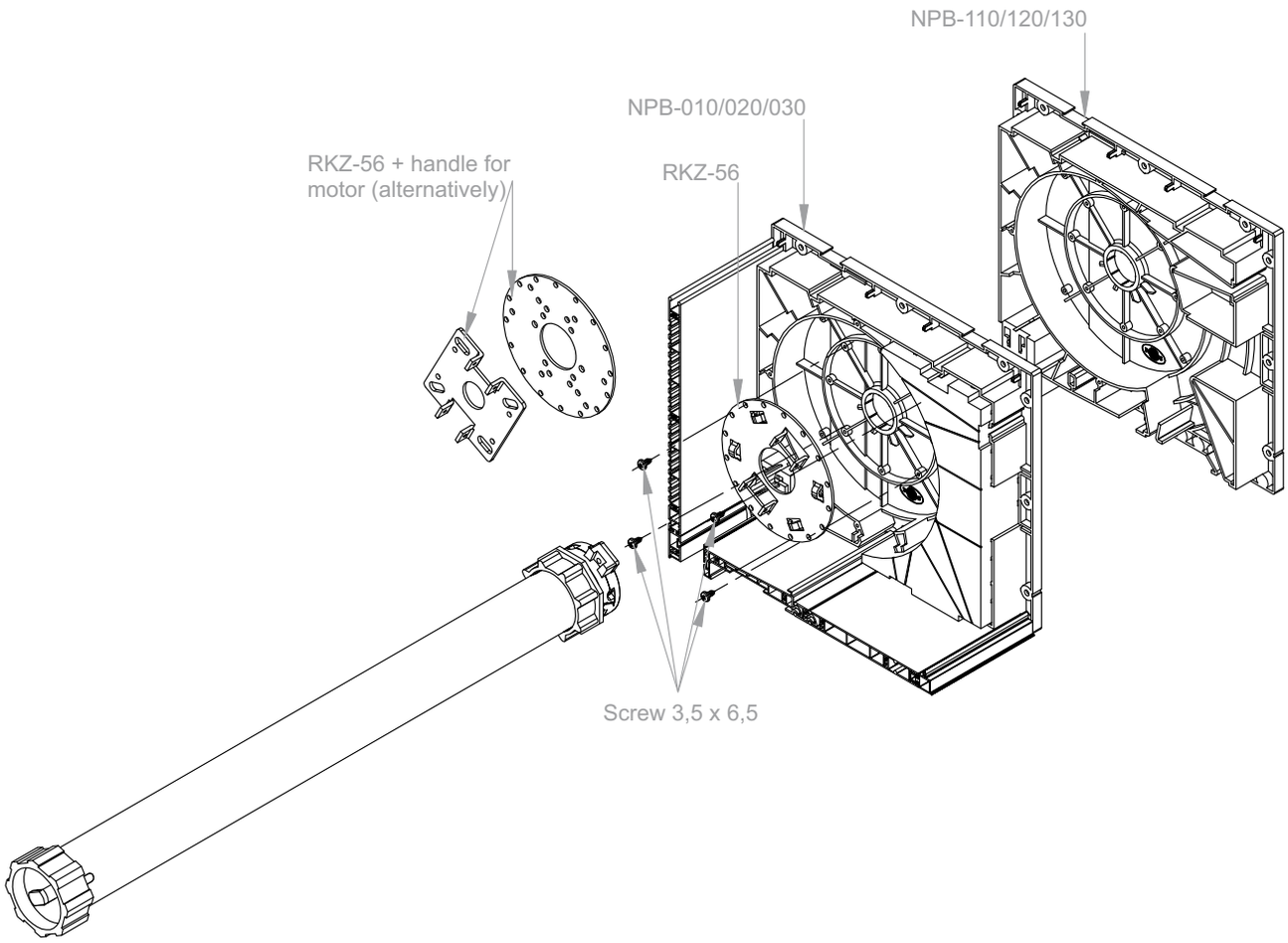


Assembly of crank mechanism

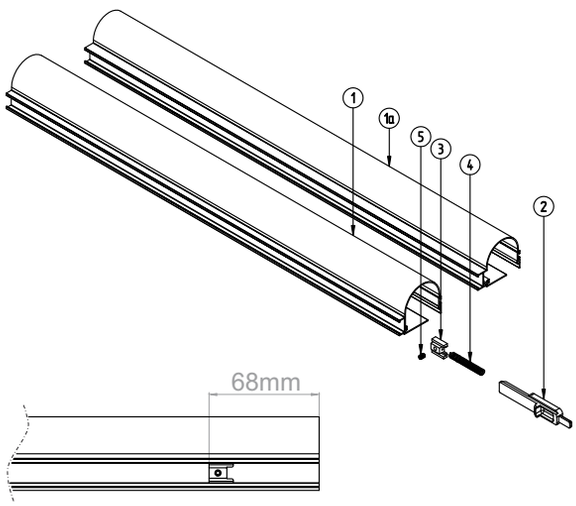


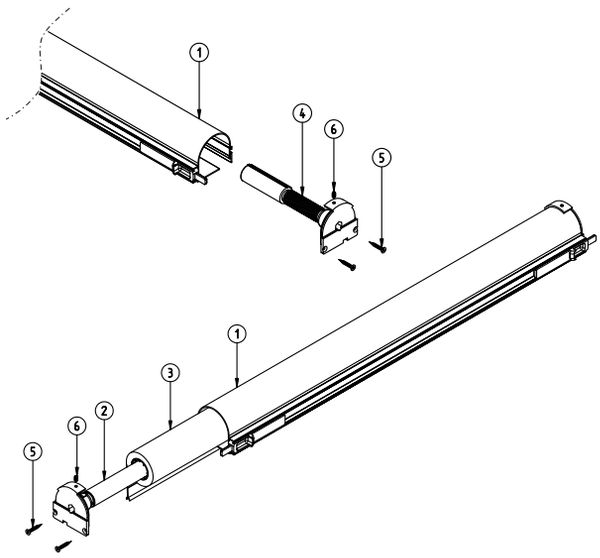
1. ACE 1-8 MAŁY	ACE 1: 8 small crank mechanism
2. RKZ56	Plate for PCV box motor
3.	ACE Mounting pin - included with the ACE mechanism
4. OBS-40-ACE	40 mounting for ACE mechanism
OBS-60-ACE	60 mounting for ACE mechanism
5. KRH-ZF	Kardan 165 with 1430 mm crank
6. SW 40	Octagonal pipe Ø40
SW 60	Octagonal pipe Ø60
7.	Wall handle for crank - included in the crank set
8.	TP1000K 180, 220, 250 Box

Assembly of the motor



Installation of the mosquito net cassette in the box





1. M-RN-011	Mosquito net cassette for 260 net
1a.M-RN-091	Mosquito net cassette for 160 net
2. M-RN-050	Latch of the cassette
3. M-RN-060	Latch blockade
4. M-RN-070	Spring for cassette latch
5. WKR 4 x 6	Grub screw for the latch lock

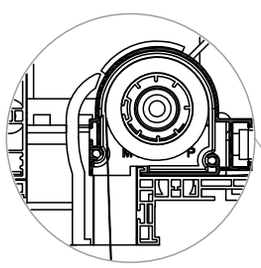
Box 220, 250

1. M-RN-011	Mosquito net cassette for 260 net
2. MZN-021	Spring 240 for mosquito net for a large cassette
MZN-031	Spring 260 for mosquito net for a large cassette
MZN-041	Spring 310 for mosquito net for a large cassette
MZN-051	Spring 350 for mosquito net for a large cassette
3. MOS-260	Mosquito net
4. MZN-012	Slowing system for mosquito net
5. 2,8 x 20	Screw
6. 4 x 6	Grub screw

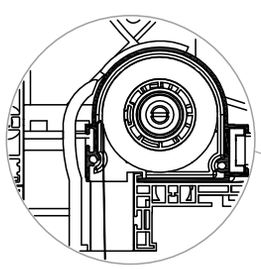
Box 180

1. M-RN-091	Mosquito net cassette for 160 net
2. MZN-060	Spring 240 for mosquito net for a small cassette
MZN-070	Spring 260 for mosquito net for a small cassette
MZN-080	Spring 310 for mosquito net for a small cassette
MZN-090	Spring 350 for mosquito net for a small cassette
3. MOS-160	Mosquito net
4. MZN-100	Slowing system for mosquito net for a small cassette
5. 2,8 x 20	Screw
6. 4 x 6	Grub screw

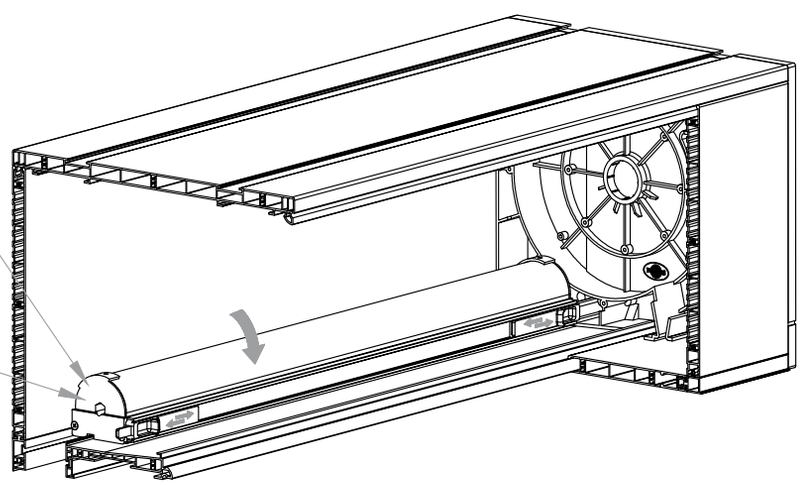
Correct arrangement of mosquito net cassette



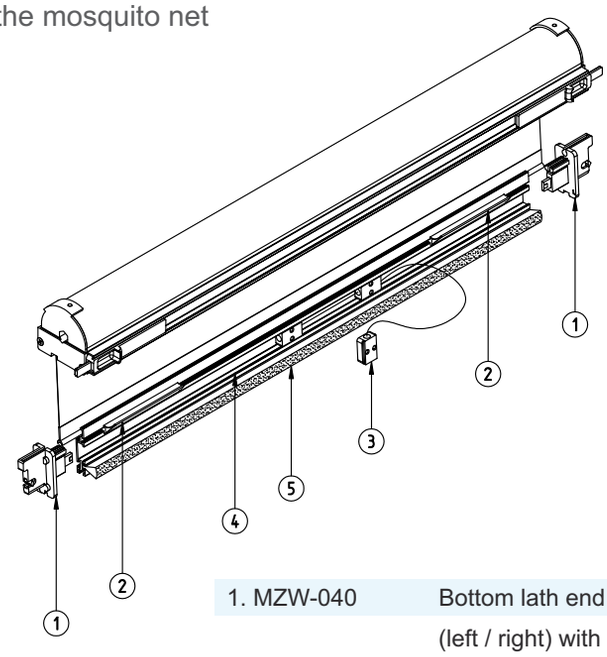
Cassette M-RN-090
in the box 180, 220, 250 mm



Cassette M-RN-011
in the box 220, 250 mm

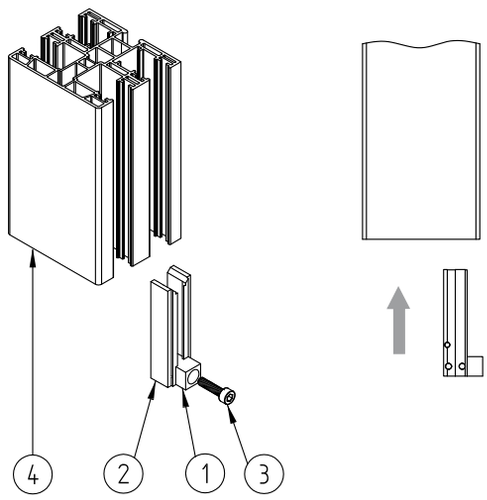


Installation of bottom lath of the mosquito net



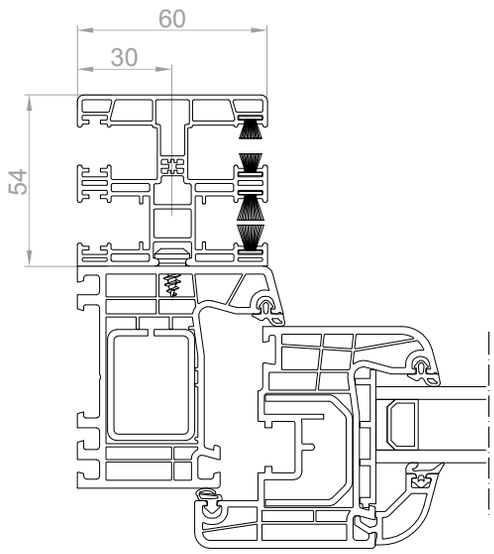
1. MZW-040	Bottom lath end of the CLICK-CLACK blockade (left / right) with latch
2. M-RW-080	Handle of mosquito net bottom lath
3. MZW-050	Mosquito net cord handle
4. LDM 42x8	Mosquito net bottom lath
5. SP 5,5x14	Brush seal in the mosquito net bottom lath

Installation of CLICK-CLACK blockade lock in PVC and ALU guide

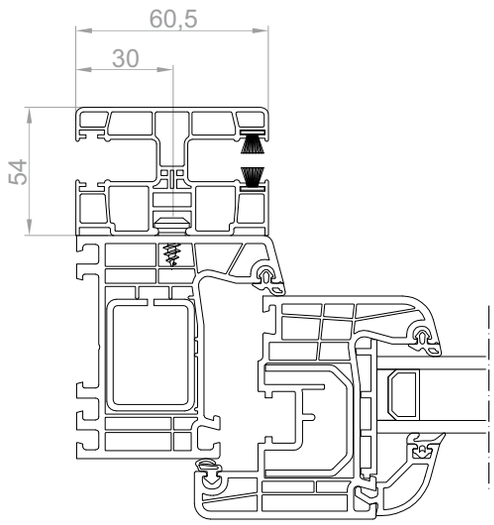


1. M-RN-030	CLICK-CLACK blockade lock for PVC guide L
2. M-RN-040	CLICK-CLACK blockade lock for PVC guide R
3. M4x16	Allen screw with nut
4. NPR-010	Shutter guide with mosquito net

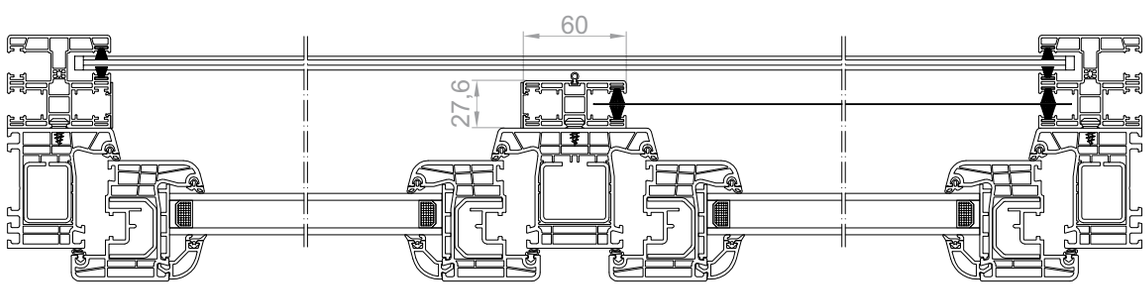
Installation of **NPR-010** guide



Installation of **NPR-020** guide



Installation of division guide for **NPR-030** mosquito net



Recommended box size for TP1000K® shutter with mosquito net

PA-39 and PA-45 curtain (including lateral caps)

width 0,55-1,8 m, max area of 4.5 m^2

Type of the box	Maximum height of the shutter with box (cm)			Maximum height of the shutter with box (cm)			Maximum height of the shutter with box (cm)		
		with automatic bolt (cm)	with blocking bracket (cm)		with automatic bolt (cm)	with blocking bracket (cm)		with automatic bolt (cm)	with blocking bracket (cm)
PVC	**PA-39 ø 40+PZ50**	**PA-39 ø 40-rygiel**	**PA-39 ø 40-WB.**	**PA-39 ø 60+PZ70**	**PA-39 ø 60-rygiel**	**PA-39 ø 60-WB**	**PA-45 ø 60+PZ70**	**PA-45 ø 60-rygiel**	**PA-45 ø 60-WB**
180 mm	168	168	168	150	158	161	120	120	124
220 mm	230	212	212	212	204	204	173	173	137
250 mm	265	265	265	265	265	265	265	265	265
180 mm+stabilizing console	168	168	168	150	158	161	120	120	124
220 mm+stabilizing console	230	212	212	212	204	204	173	173	137
250 mm+stabilizing console	265	265	265	265	265	265	265	265	265
180 mm+additional styrofoam insert	168	168	168	150	158	161	120	120	124
220 mm+additional styrofoam insert	230	212	212	212	204	204	173	173	137
250 mm+additional styrofoam insert	265	265	265	265	265	265	265	265	265

Note! With the shutter width of more than 2 m (for divisions in one box) use ø 60.

In addition, the box reinforcement - WSP should be taken into account.

The minimum width of the shutter with slowing system for mosquito net is 67 cm.

PZ - expansion ring from ø 40 to ø 50 or from ø 60 to ø 70.

External blinds

width 0,62-4,5 m; max. surface 16 m^2

Box size	Maximum height of shutte (including the box size) /cm	
	with external blind ZF3000 (cm)	
PVC	**C80**	**Z90**
250 mm	183	223
250 mm+ lowering	223	265
250 mm+ raising	223	265
250 mm+lowering +raising	265	265

Recommended box size for TP1000K® shutter without mosquito net

PA-39, PA-45, PA-52 curtain (including lateral caps)

Type of the box	width 0,35-2 m, max. area 6,5 m²			width 0,35-2,5 m, max. area 6,5 m²			width 0,35-3 m, max. area 6,5 m²			width 0,35-3,7 m., max. area 8.0 m²		
	Maximum height of the shutter with box (cm)			Maximum height of the shutter with box (cm)			Maximum height of the shutter with box (cm)			Maximum height of the shutter with box (cm)		
		with automatic bolt (cm)	with blocking bracket (cm)		with automatic bolt (cm)	with blocking bracket (cm)		with automatic bolt (cm)	with blocking bracket (cm)		with automatic bolt (cm)	with blocking bracket (cm)
PVC	PA-39 ø 40+PZ50	PA-39 ø 40-rygiel	PA-39 ø 40-WB.	PA-39 ø 60+PZ70	PA-39 ø 60-rygiel	PA-39 ø 60-WB	PA-45 ø 60+PZ70	PA-45 ø 60-rygiel	PA-45 ø 60-WB	PA-52 ø 60+PZ70	PA-52 ø 60-rygiel	PA-52 ø 60-WB
180 mm	236	232	230	212	200	216	169	169	169	132	x	153
220 mm	349	340	349	328	298	298	255	255	255	212	x	212
250 mm	418	418	418	402	402	402	334	334	334	239	x	265
180 mm+stabilizing console	169	165	177	158	154	142	129	129	120	101	x	111
220 mm+stabilizing console	302	302	302	290	290	290	255	255	245	212	x	212
250 mm+stabilizing console	418	418	418	402	402	402	334	334	334	239	x	265
180 mm+additional styrofoam insert	138	134	134	95	91	95	93	93	93	64	x	76
220 mm+additional styrofoam insert	250	250	250	212	204	204	173	173	173	170	x	180
250 mm+additional styrofoam insert	418	418	418	402	402	402	334	334	334	239	x	265

Note! With the shutter width of more than 2 m (for divisions in one box) use ø 60.

In addition, the box reinforcement - WSP should be taken into account.

The minimum width of the shutter with slowing system for mosquito net is 67 cm.

PZ - expansion ring from ø 40 to ø 50 or from ø 60 to ø 70.

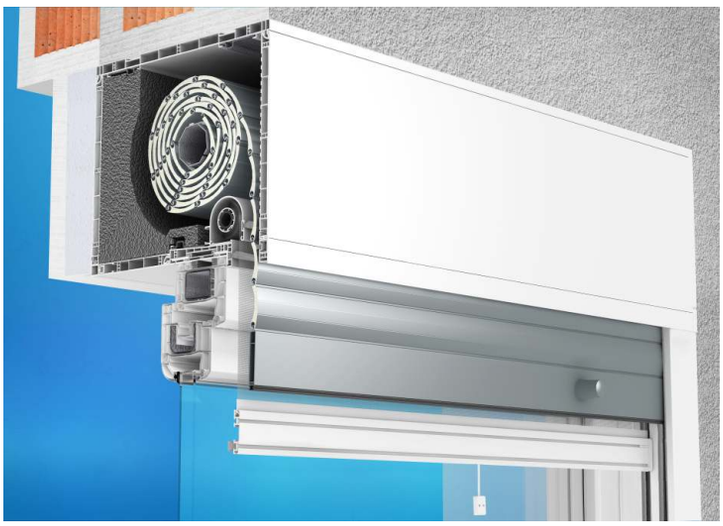
External blinds

width 0,62-4,5 m; max. surface 16 m²

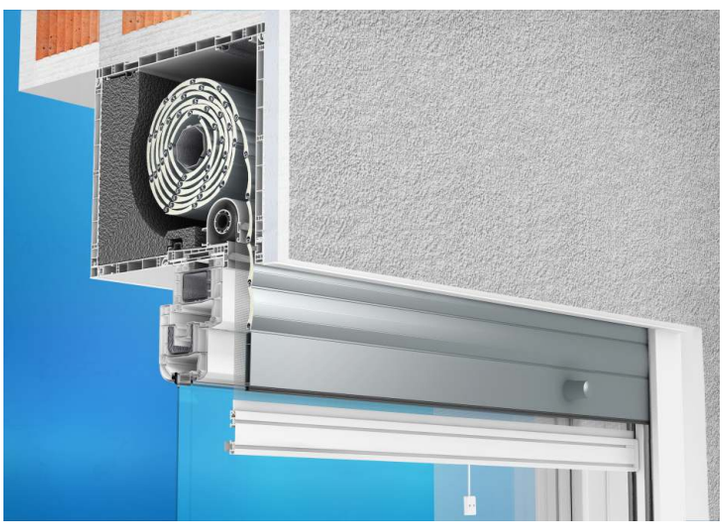
Box size	Maximum height of shutte (including the box size) /cm with external blind ZF3000 (cm)	
PVC	C80	Z90
250 mm	183	223
250 mm+ lowering	223	283
250 mm+ raising	223	283
250 mm+lowering +raising	273	343

Examples of building-up TP1000K® shutters

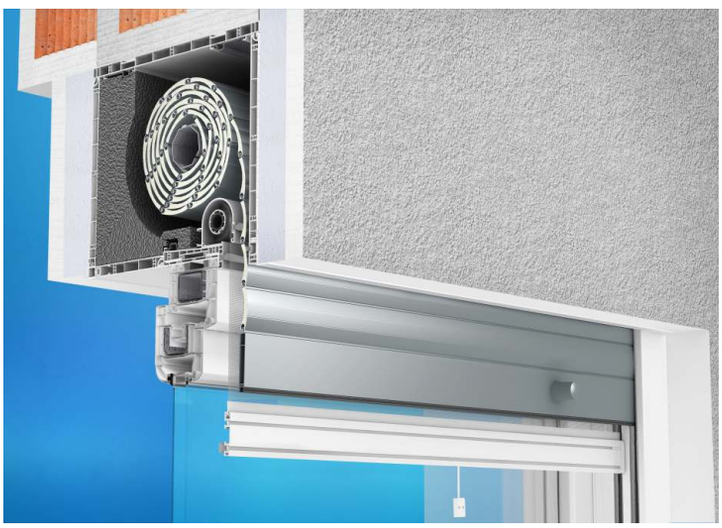
TP1000K® shutter non-built-up



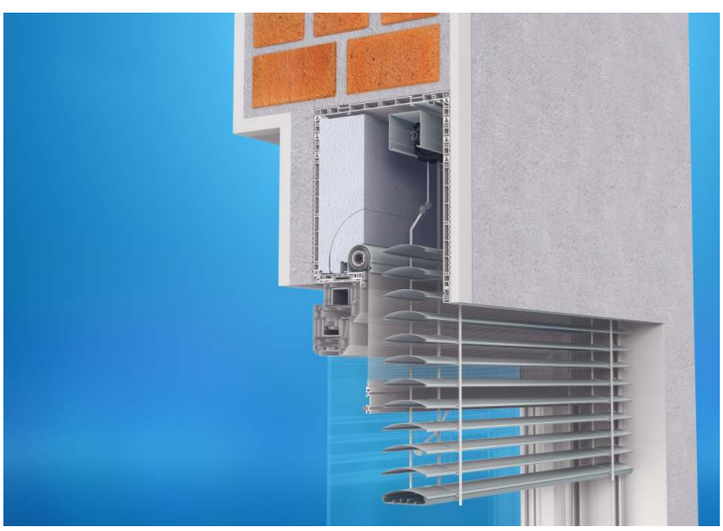
TP1000K® shutter built up from the inside



TP1000K® shutter built-up from the outside



TP1000K® shutter built-up on both sides



TP1000K®-ZF

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Jednostka notyfikowana nr 1488 | Członek EOTA | Certyfikaty akredytacji PCA nr: AB 023, AC 020, AC 072, AP 113
00-611 Warszawa | ul. Filtrowa 1 | tel. 22 8250471 | Fax 22 8255286 | Dyrektor: tel. 22 8251303| 22 8252885 | fax 22 8257730|
02-656 Warszawa | ul. Ksawerów 21 | tel. 22 8431471 | fax 22 8432931 |www.itb.pl | KRS: 0000158785 |

Zakład Fizyki Cieplnej, Akustyki i Środowiska
ul. Ksawerów 21, 02-656 Warszawa
tel.: 22 5664 133; fizyka@itb.pl
Pracownia Fizyki Cieplnej
tel.: 22 5664 269; fizyka@itb.pl
Pracownia Energii i Środowiska
tel.: 22 5664 272; fizyka-srodowisko@itb.pl
Pracownia Akustyki
tel.: 22 5664 311; akustyka@itb.pl
Filia w Katowicach
al. W. Korfantego 191, 40-153 Katowice
tel.: 32 7302 925; akustyka@itb.pl

Warszawa, 15.07.2016 r.

PORTOS Renata i Tomasz Szukalscy Spółka Jawna
ul. Złota 71
62-800 KALISZ

Wasz znak:

W korespondencji prosimy podawać poniższy znak:
NZF-03309R:24/JA/16

DOTYCZY: LZF00-01619/16/Z00NZF

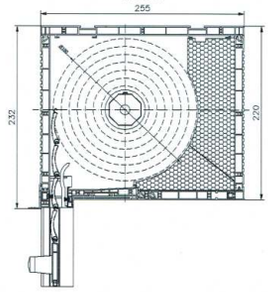
OBIEKT BADAŃ: Skrzynka żaluzji z PCV (TP1000K)

WYNIK BADAŃ: Współczynnik przenikania ciepła skrzynki żaluzji z PCV (TP1000K), pokazanej na rysunku, obliczony wg PN-EN ISO 10077-2:2012, o wymiarach (H x T) 220 x 255 mm jest równy:

$U_{sb} = 0,75$ W/(m^2·K)

DOKUMENT ŹRÓDŁOWY: LZF00-01619/16/Z00NZF

TP1000K



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Zakładu Fizyki Cieplnej, Akustyki i Środowiska
dr Barbara Pietruszka

Nr sprawy wg RWA: NZF-413-186/2016

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00-611 Warszawa | ul. Filtrowa 1 | tel. 22 8250471 | Fax 22 8255286 | Dyrektor: tel. 22 8251303| 22 8252885 | fax 22 8257730|
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ul. Ksawerów 21, 02-656 Warszawa
tel.: 22 5664 133; fizyka@itb.pl
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tel.: 32 7302 925; akustyka@itb.pl

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PORTOS Renata i Tomasz Szukalscy Spółka Jawna
ul. Złota 71
62-800 KALISZ

Wasz znak:

W korespondencji prosimy podawać poniższy znak:
NZF-03309R:25/JA/16

DOTYCZY: LZF00-01619/16/Z00NZF

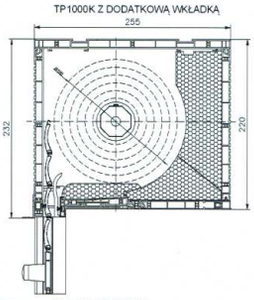
OBIEKT BADAŃ: Skrzynka żaluzji z PCV (TP1000K z dodatkową wkładką)

WYNIK BADAŃ: Współczynnik przenikania ciepła skrzynki żaluzji z PCV (TP1000K z dodatkową wkładką), pokazanej na rysunku, obliczony wg PN-EN ISO 10077-2:2012, o wymiarach (H x T) 220 x 255 mm jest równy:

$U_{sb} = 0,72$ W/(m^2·K)

DOKUMENT ŹRÓDŁOWY: LZF00-01619/16/Z00NZF

TP1000K Z DODATKOWĄ WKŁADKĄ



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Zakładu Fizyki Cieplnej, Akustyki i Środowiska
dr Barbara Pietruszka

Nr sprawy wg RWA: NZF-413-186/2016

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00-611 Warszawa | ul. Filtrowa 1 | tel. 22 8250471 | Fax 22 8255286 | Dyrektor: tel. 22 8251303| 22 8252885 | fax 22 8257730|
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al. W. Korfantego 191, 40-153 Katowice
tel.: 32 7302 925; akustyka@itb.pl

Warszawa, 15.07.2016 r.

PORTOS Renata i Tomasz Szukalscy Spółka Jawna
ul. Złota 71
62-800 KALISZ

Wasz znak:

W korespondencji prosimy podawać poniższy znak:
NZF-03309R:27/JA/16

DOTYCZY: LZF00-01619/16/Z00NZF

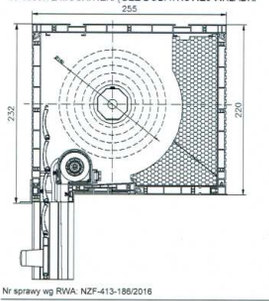
OBIEKT BADAŃ: Skrzynka żaluzji z PCV (TP1000K z moskitierą bez dodatkowej wkładki)

WYNIK BADAŃ: Współczynnik przenikania ciepła skrzynki żaluzji z PCV (TP1000K z moskitierą bez dodatkowej wkładki), pokazanej na rysunku, obliczony wg PN-EN ISO 10077-2:2012, o wymiarach (H x T) 220 x 255 mm jest równy:

$U_{sb} = 0,78$ W/(m^2·K)

DOKUMENT ŹRÓDŁOWY: LZF00-01619/16/Z00NZF

TP1000K Z MOSKITIERĄ BEZ DODATKOWEJ WKŁADKI



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Zakładu Fizyki Cieplnej, Akustyki i Środowiska
dr Barbara Pietruszka

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Jednostka notyfikowana nr 1488 | Członek EOTA | Certyfikaty akredytacji PCA nr: AB 023, AC 020, AC 072, AP 113
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PORTOS Renata i Tomasz Szukalscy Spółka Jawna
ul. Złota 71
62-800 KALISZ

Wasz znak:

W korespondencji prosimy podawać poniższy znak:
NZF-03309R:26/JA/16

DOTYCZY: LZF00-01619/16/Z00NZF

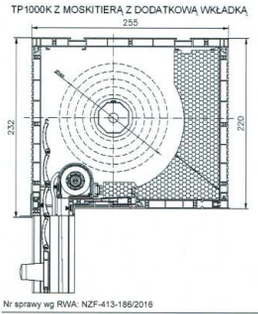
OBIEKT BADAŃ: Skrzynka żaluzji z PCV (TP1000K z moskitierą, z dodatkową wkładką)

WYNIK BADAŃ: Współczynnik przenikania ciepła skrzynki żaluzji z PCV (TP1000K z moskitierą, z dodatkową wkładką), pokazanej na rysunku, obliczony wg PN-EN ISO 10077-2:2012, o wymiarach (H x T) 220 x 255 mm jest równy:

$U_{sb} = 0,74$ W/(m^2·K)

DOKUMENT ŹRÓDŁOWY: LZF00-01619/16/Z00NZF

TP1000K Z MOSKITIERĄ Z DODATKOWĄ WKŁADKĄ



Z-ca KIEROWNIKA
Zakładu Fizyki Cieplnej, Akustyki i Środowiska
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