



Member of PISLA GROUP

Vertex S.A.
SUN PROTECTIONS

EXTERNAL PRODUCTS` PRICELIST



2017

MAXIMUM DIMENSIONS OF ROLLER SHUTTERS

Table defines the boundary dimensions of roller shutters made of PA 39 and PA 43 due to:

- Wind load resistance class (values from 1 to 6 in the table).
- Scope of octagonal tube:

Tube Ø 40
 Tube Ø 60
- Scope of manual roller 5 lm – above the bold line. Different type of manual drive or electric drive must be used in the other case.

PROFIL PA 39, PA 43																
	WIDTH															
		1,0	1,2	1,4	1,6	1,8	2,0	2,2	2,4	2,6	2,8	3,0	3,2	3,4	3,6	3,8
HEIGHT	0,5	6	6	6	5	4	3	3	2	1	1	1	1	1	1	1
	0,6	6	6	6	5	4	3	3	2	1	1	1	1	1	1	1
	0,8	6	6	6	5	4	3	3	2	1	1	1	1	1	1	1
	1,0	6	6	6	5	4	3	3	2	1	1	1	1	1	1	1
	1,2	6	6	6	5	4	3	3	2	1	1	1	1	1	1	1
	1,4	6	6	6	5	4	3	3	2	1	1	1	1	1	1	1
	1,6	6	6	6	5	4	3	3	2	1	1	1	1	1	1	-
	1,8	6	6	6	5	4	3	3	2	1	1	1	1	-	-	-
	2,0	6	6	6	5	4	3	3	2	1	1	1	-	-	-	-
	2,2	6	6	6	5	4	3	3	2	1	-	-	-	-	-	-
	2,4	6	6	6	5	4	3	3	2	-	-	-	-	-	-	-
	2,6	6	6	6	5	4	3	3	-	-	-	-	-	-	-	-
	2,8	6	6	6	5	4	3	-	-	-	-	-	-	-	-	-
	3,0	6	6	6	5	4	3	-	-	-	-	-	-	-	-	-
	3,2	6	6	6	5	4	-	-	-	-	-	-	-	-	-	-
	3,4	6	6	6	5	4	-	-	-	-	-	-	-	-	-	-
	3,6	6	6	6	5	-	-	-	-	-	-	-	-	-	-	-
	3,8	6	6	6	-	-	-	-	-	-	-	-	-	-	-	-
	3,9	6	6	6	-	-	-	-	-	-	-	-	-	-	-	-

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Resistance grade for wind load according to
PN-EN13659

Land categories:

- I – Open rough sea, lakes of at least 5 km width against the wind, even flat land with no obstacles.
- II – Rural areas with border hedges, small farms, houses and trees.
- III – Suburban or industrial areas and continuous woods
- IV – Urban areas with at least 15% of the area developed, average height of buildings is over 15 m.



Table 1. Wind velocity (PN-B02011)

Wind zone	Vk (m/s)
I	20
II	24
II a	27
II b	30
III	depending on the height above sea level

Table 2. Assignment of load resistance grades to wind load zones in Poland.

Criteria		Building height < 6m					Building height 7-18m					Building height 19-28m					Building height 29-50m					Building height 51-100m				
		Wind zone					Wind zone					Wind zone					Wind zone					Wind zone				
Ground cat.		I	II	II a	II b	III	I	II	II a	II b		I	II	II a	II b		I	II	II b			I	II	II a	II b	
I	Wind resistance class	2	3	4	4	*	3	4	4	5	*	3	4	4	5	*	3	4	5	*		4	4	5	5	*
II		2	3	3	4	*	3	4	4	4	*	3	4	4	5	*	3	4	5	*		4	4	5	5	*
III		1	1	2	3	*	1	2	3	3	*	1	3	3	4	*	2	3	4	*		3	4	4	5	*
IV		1	1	2	3	*	1	1	2	3	*	1	2	2	3	*	1	3	4	*		2	3	4	4	*

Table 3. Wind load resistance grade.

Class	0	1	2	3	4	5	6
Pressure test p (N/m²)	< 50	50	70	100	170	270	400
Pressure test 1,5 p (N/m²)	< 75	75	100	150	250	400	600

1. TECHNICAL SPECIFICATIONS OF ROLLER SHUTTERS

1.1. MAXIMAL WIDTHS OF ROLLER SHUTTERS

Maximal widths of roller shutters profile PA 39

Wind-load resistance grades due to EN 13659	Maximal width of roller shutter with guiding rails (mm)		
	PP 45	PP 53, PK 53, PPD 79, A20	PP 68
1	< 2700	< 3200	< 3900
2	< 2500	< 2900	< 3400
3	< 2300	< 2500	< 2900
4	< 1900	< 2100	< 2300
5	< 1600	< 1800	< 2000
6	< 1500	< 1600	< 1900

Maximal widths of roller shutters with profile PA 43

Wind-load resistance grades due to EN 13659	Maximal width of roller shutter with guiding rails		
	PP 45	PP 53, PK, PPD 79, A20	PP 68
1	< 2900	3300	3700
2	< 2600	3000	3400
3	< 2400	2600	2900
4	< 2000	2200	2400
5	< 1700	1900	2100
6	< 1500	1600	1800

Maximal widths of roller shutters with profile PA 52

Wind-load resistance grades due to EN 13659	Maximal width of roller shutter with guiding rails (mm)			
	PP 66	PPF 60/17 Opoterm	PP 75	Rolling gates PP 75
1	< 4600	< 3800	< 3000	< 3000
2	< 3800	< 3500	< 2500	< 2500
3	< 3200	< 3100	< 1800	< 1800
4	< 2700	< 2700	-	-
5	< 2300	< 2300	-	-
6	< 2000	< 1900	-	-

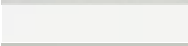
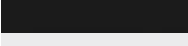
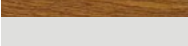
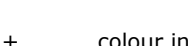
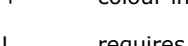
Maximal widths of roller shutters with profile PA 55

Wind-load resistance grades due to EN 13659	Maximal width of roller shutter with guiding rails (mm)	
	SHUTTERS PP 66 / PP 75	ROLLING GATES PP 75
1	<4800	< 3000
2	< 4700	< 2500
3	< 3900	< 1800
4	< 3200	-
5	< 2800	-
6	< 2400	-

Maximal widths of roller shutters with profile PA 77

Wind-load resistance grades due to EN 12424	Maximal width of roller shutter with guiding rails (mm)	
	PP 89	PP 110
1	< 4500	< 6000
2	< 3580	< 4500
3	< 3000	< 3500
4	< 2500	< 2500

1.2. COLOURS OF PROFILES AND BOTTOM RAILS

	Code	Colour	RAL*	Curtain				Bottom list/End list			
				PA 39	PA 43	PE 41	PA 52	LDG-E	LDG/MOS	LDG 40	LDG 52
	01	silver	9006	+	+	L	+	+	L	+	+
	02	white	9016	+	+	+	+	+	+	+	+
	03	grey	7038	+	+	+	+	+	L	+	+
	04	dark beige	1019	+	+	L	LM	L	L	L	L
	05	beige	-	+	+	+	+	+	L	-	+
	06	dark wood	wood imitation	+	+	-	+	-	-	-	-
	07	light wood		+	-	-	-	-	-	-	-
	08	dark brown	8019	+	+	+	+	+	+	+	+
	09	brown	8014	+	+	+	+	+	L	+	+
	12	red	3003	D	LM	L	LM	L	L	L	L
	13	green	6005	D	LM	L	LM	L	L	L	L
	15	cream white	9001	+	+	L	+	+	L	L	L
	16	ivory	1015	+	+	L	LM	L	L	L	L
	17	fir green	6009	D	LM	L	LM	L	L	L	L
	18	steel blue	5011	D	LM	L	LM	L	L	L	L
	19	burgundy	3005	D	LM	L	LM	L	L	L	L
	20	black	9005	D	D	L	LM	L	L	L	L
	22	ultra white	9016	+	+	L	+	+	+	+	+
	23	grey anthracite	7016	+	+	L	+	+	L	+	+
	26	mahogany	wood imitation	+	+	-	-	D	D**	-	-
	28	nut		+	+	-	+	D	D**	-	-
	30	golden oak		+	+	-	+	D	D**	-	D
	31	light grey	7047	+	+	L	+	L	L	L	L
	33	basalt grey	7012	D	D	L	LM	L	L	L	L
	34	quartz grey	7039	D	D	L	LM	L	L	L	L
	35	concrete grey	7023	D	LM	L	LM	L	L	L	L
	37	grey aluminum	9007	D	LM	LM	D	L	L	L	L
	36	wenge	wood imitation	+	+	-	-	D	D**	-	-
	52	winchester		+	+	-		D	D**	-	-

- +

colour in standard
- L

requires painting (term of realisation is about 10 working days) -extra charge page 48.
- LM

equires wet painting (term of realisation is about 10 working days) - extra charge page 48.
- D

extra colours, extra charge.
- *

colours of RAL codes means colours that are most similar to the real ones.
- **

colors available only in Easy Click anti-mosquito nets.

NOTE

Due to the different suppliers for components, small differences in shades of profiles may occur. The wood-imitation profiles may also vary in the structure of paint. Complaints reported for that reasons will not be accepted.

1.3. COLOURS OF BOXES AND GUIDING RAILS

ALUMINIUM BOXES								ALUMINIUM GUIDING RAILS							
	Colour	RAL*	Type of box					Type of guiding rail							
			Stan- dard	Quater- -round	half- -round	SPE	PUTZ	PP 45	PP 53	PP 68	PK 53	A 20	PPD 79	PP 53/ ODS	PPPW 66
01	silver	9006	+	+	+	+	L	L	+	+	+	L	+	+	L
02	white	9016	+	+	+	+	+	+	+	+	+	+	+	+	+
03	grey	7038	+	+	+	+	L	+	+	+	+	+	+	+	+
05	beige	1013	+	L	L	L	L	L	+	+	+	L	+	+	L
08	dark brown	8019	+	+	+	+	+	+	+	+	+	+	+	+	+
09	brown	8014	+	+	+	+	+	+	+	+	+	+	+	+	+
15	cream white	9001	+	L	L	L	L	L	+	+	L	L	L	L	L
23	grey anthracite	7016	+	L	+	+	L	+	+	+	+	L	+	+	L
26	mahogany**	wood - immi- -tation	D	-	-	-	D	-	D	D	D	D	D	-	-
28	walnut**		D	-	-	D	D	-	D	D	D	D	D	-	-
30	golden oak**		D	-	-	D	D	-	D	D	D	D	D	-	-
36	wenge		-	-	-	D	-	-	D	-	D	D	D	-	-
52	winchester		-	-	-	D	-	-	D	-	D	D	D	-	-
RAL (the rest)			L	L	L	L	L	L	L	L	L	L	L	L	L

* RAL color codes represent the colors most similar to the real ones.

** Wood colors are not present in a standard box size 150 mm. Mahogany color does not appear in boxes 205 mm.

PVC BOXES AND GUIDING RAILS

Code	Colour	Renolit	Type of system			
			VEGAS REVO	OPOTERM	CLEVERBOX	AK-FLEX only guiding rails
02	white	-	+	+	+	+
09	brown	887505	D2	D	D	-
15	cream white	137905	D2	D2	D1	D2
23	grey anthracite	701605	D	D	D	D
26	mahogany	2065021	D	D	D	D
28	walnut	2178007	D	D	D	D
30	golden oak	2178001	D	D	D	D
36	wenge	2052089	D	D	D	D
52	winchester	49240	D2	D	D2	D2
RAL			L	L	L	L

- +

standard colour.
- D, D1, D2

extra colours with an additional charge.
- L

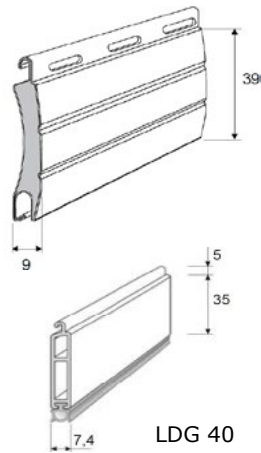
requires a powder coating (uptill 10 working days) with an additional charge.

RENOLIT VENEER COATING FOR BOXES AND GUIDING RAILS OF TOP-MOUNTED SHUTTERS

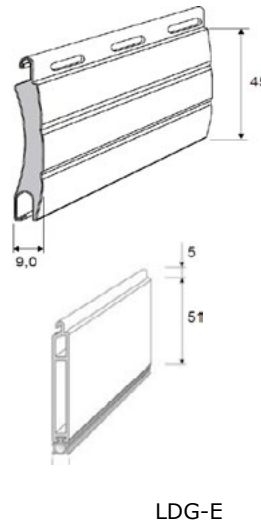
Area	Extra charge
up till 10 m ²	individual pricing
10-20 m ²	3 x percent surcharge D
above 20 m ²	2 x percent surcharge D

1.4. TECHNICAL DATA OF PROFILES

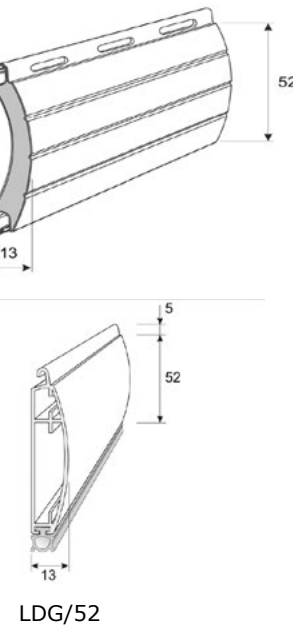
SLATS MADE OF PA 39 PROFILE	Technical data	Guiding rails		
		PP 45	PP 53	PP 68
	height of profile	39 mm	39 mm	39 mm
	thickness of profile	9 mm	9 mm	9 mm
	quantity of slats per 1 m height	25 psc	25 pcs	25 pcs
	weight for 1 m²	3 kg	3 kg	3 kg
	maximal width of roller shutter	2700 mm	3200 mm	3900 mm
	maximal area of roller shutter	6 m²	6 m²	6 m²
	width of guiding rail	45 mm	53 mm	68 mm



SLATS MADE OF PA 43 PROFILE	Technical data	Guiding rails		
		PP 45	PP 53	PP 68
	height of profile	45 mm	45 mm	45 mm
	thickness of profile	9 mm	9 mm	9 mm
	quantity of slats per 1 m height	22 pcs	22 pcs	22 pcs
	weight for 1 m²	3 kg	3 kg	3 kg
	maximal width of roller shutter	2600 mm	3100 mm	3700 mm
	maximal area of roller shutter	6,5 m²	6,5 m²	6,5 m²
	width of guiding rail	45 mm	53 mm	68 mm



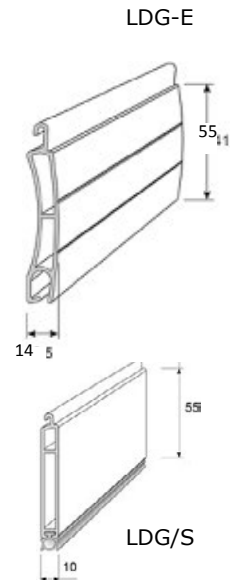
SLATS MADE OF PA 52 PROFILE	Technical data	Shutters		Gates	
		PP 66/ PP 75	PPD 60/17	PP 66	PP 75
	height of profile	52 mm	52 mm	52 mm	52 mm
	thickness of profile	13 mm	13 mm	13 mm	13 mm
	quantity of slats per 1 m height	19 pcs	19 pcs	19 pcs	19 pcs
	weight for 1m²	3 kg	3 kg	3 kg	3 kg
	maximal width of roller shutter	4600 mm	3800 mm	3000 mm	3000 mm
	maximal area of roller shutter	8 m²	8 m²	8 m²	8 m²
	width of guiding rail	66 mm	75 mm	66 mm	75 mm



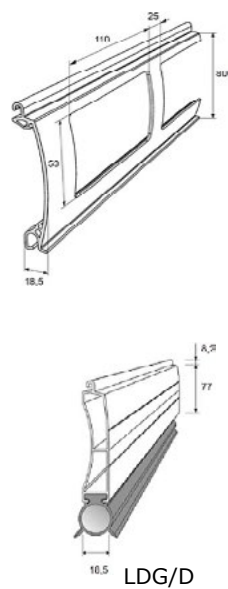
Note

Profiles PA 39, PA 45, PA 55 are available also as perforated and non-perforated.

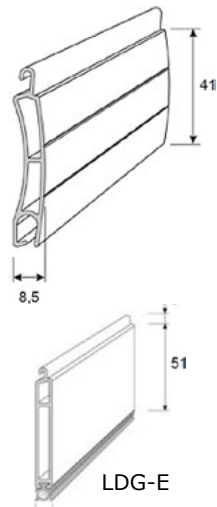
SLATS MADE OF PA 55 PROFILE	Technical data	Shutters		Gates	
		PP 66	PP 75	PP 66	PP 75
	height of profile	55 mm	55 mm	55 mm	55 mm
	thickness of profile	14 mm	14 mm	14 mm	14 mm
	quantity of slats per 1 m height	18 pcs	18 pcs	18 pcs	18 pcs
	weight for 1 m²	3,5 kg	3,5 kg	3,5 kg	3,5 kg
	maximal width of roller shutter	4800 mm	4800 mm	3000 mm	3000 mm
	maximal area of roller shutter	9,5 m²	9,5 m²	9,5 m²	9,5 m
	width of guiding rail	66 mm	75 mm	66 mm	75 mm



SLATS MADE OF PEK 77 PROFILE	Technical data	Guiding rail	
		PP 89	PP 110
	height of profile	77 mm	77 mm
	thickness of profile	18,5 mm	18,5 mm
	quantity of slats per 1 m height	13 pcs	13 pcs
	weight for 1 m²	4,8 kg	4,8 kg
	maximal width of roller shutter	4500 mm	6000 mm
	maximal area of roller shutter	15 m²	15 m²
	width of guiding rail	89 mm	110 mm



SLATS MADE OF PE 41 EXTRUDED	Technical data	Guiding rail			
		PP 53	PP 68	PPW 66	PPW 66 strengthened
	height of profile	41 mm	41 mm	41 mm	41 mm
	thickness of profile	8,5 mm	8,5 mm	8,5 mm	8,5 mm
	quantity of slats per 1 m height	24 pcs	24 pcs	24 pcs	24 pcs
	weight for 1 m²	7 kg	7 kg	7 kg	7 kg
	maximal width of roller shutter	5300 mm	5900 mm	5900 mm	2001 mm
	maximal area of roller shutter	8,5 m²	8,5 m²	8,5 m²	8,5 m²
	width of guiding rail	53 mm	68 mm	66 mm	66mm

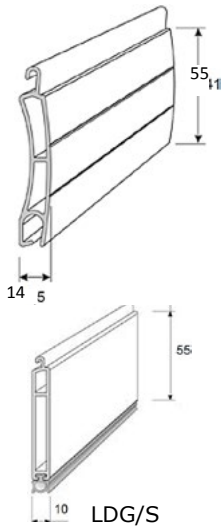


Note

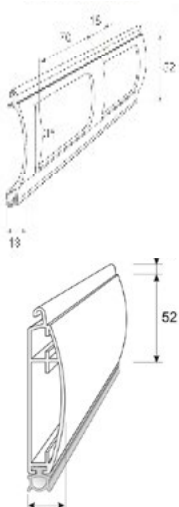
On request, we offer rolling grilles made from profile PEK 80 and roller shutters made from profile PE100 - individual pricing.

SLATS MADE OF PE 55 EXTRUDED	Technical data	Guiding rail		Guiding rail strong		SLATS MADE OF PE 55 Z RC3 *
		PP 75	PPW 90	PPW 80	PPW 90	
	height of profile	55 mm	55 mm	55 mm	55 mm	
	thickness of profile	14 mm	14 mm	14 mm	14 mm	
	quantity of slats per 1 m height	18 pcs	18 pcs	18 pcs	18 pcs	
	weight for 1 m ²	8,73 kg	8,73 kg	8,73 kg	8,73 kg	
	maximal width of roller shutter	5200 mm	6500 mm	2800 mm	2800 mm	
	maximal area of roller shutter	15 m ²	15 m ²	10,35 m ²	10,35 m ²	
	width of guiding rail	75 mm	90 mm	80 mm	90 mm	

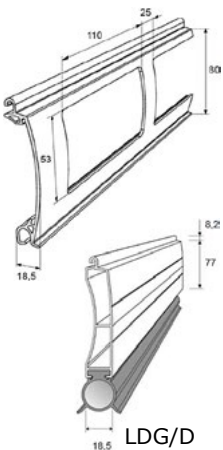
* Bottom slat LDG 55/W



SLATS MADE OF PE K 52	Technical data	Guiding rail	
		PP66	PP75
	height of profile	52 mm	52 mm
	thickness of profile	13 mm	13 mm
	quantity of slats per 1 m height	19 pcs	19 pcs
	ciężar 1 m ²	4,75 kg	4,75 kg
	maximal width of roller shutter	3000 mm	3000 mm
	maximal area of roller shutter	10 m ²	10 m ²
	width of guiding rail	66 mm	75 mm



SLATS MADE OF PEK 80	Technical data	Guiding rail	
		PP 89	
	height of profile	80 mm	
	thickness of profile	18,5 mm	
	quantity of slats per 1 m height	12,5 pcs	
	weight for 1 m ²	6,88 kg	
	maximal width of roller shutter	5000 mm	
	maximal area of roller shutter	15 m ²	
	width of guiding rail	89 mm	



2. STANDARD ROLLER SHUTTERS IN ALUMINIUM BOX

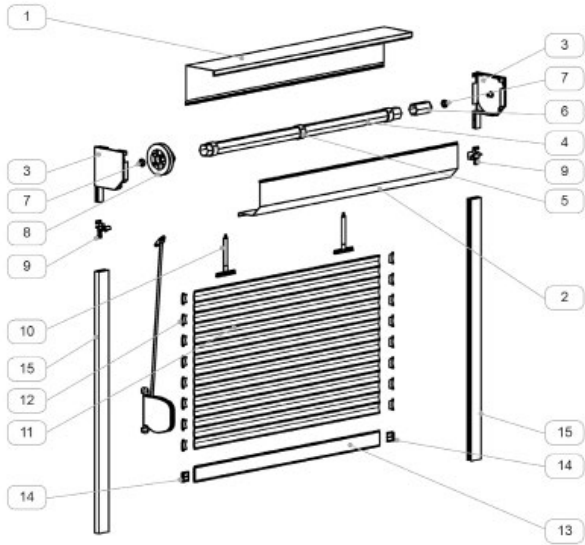


standard box

half-round box

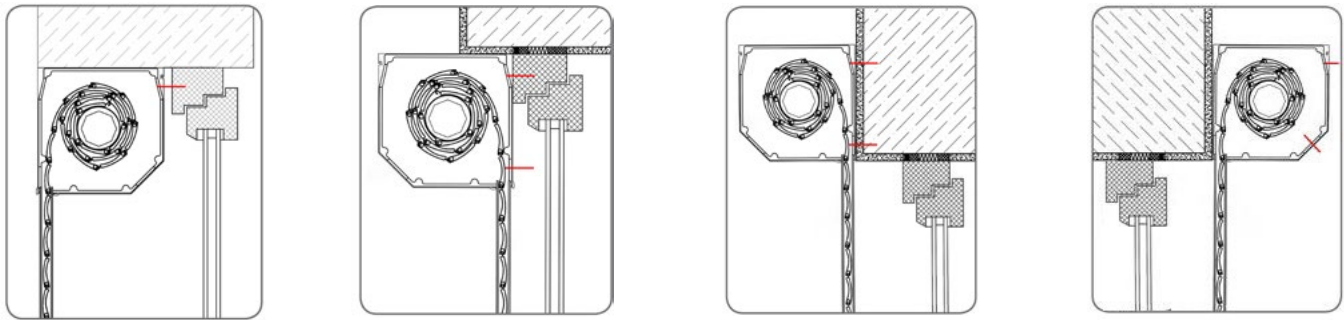
quarter-round box

CONSTRUCTION OF ROLLER SHUTTER



- 1 - SHUTTER BOX – TOP
- 2 - SHUTTER BOX – BOTTOM
- 3 - SIDE CAP
- 4 - STEEL TUBE Ø40mm OR Ø60mm
- 5 - ADAPTING RING
- 6 - CAP
- 7 - BEARING
- 8 - PULLEY
- 9 - ENTRY GUIDE
- 10 - CURTAIN'S HANGER
- 11 - CURTAIN
- 12 - PROFILE'S SIDE LOCK
- 13 - BOTTOM RAIL
- 14 - BOTTOM RAIL'S SIDE LOCK
- 15 - GUIDING RAIL
- 16 - TAPE OR ROPE WINDER

MOUNTING OPTIONS



Type „A“

Roller shutter mounted in a window niche (clockwise).

Type „B“

Roller shutter mounted in a window niche (counter-clockwise).

Type „C“

Roller shutter mounted on the wall (counter-clockwise).

TYPE „D“

Roller shutter mounted on the wall (dextral-clockwise).

2.1. MAXIMAL HEIGHT OF ROLLER SHUTTERS

Height of box (cm)	Profile PA 39				Profile PA 39 with mosquito- net	
	Ø 40	PW 40	Ø 60	PW 60	Ø 40	Ø 60
13,8	155	-	140	-	-	-
15,0	195	120	170	-	115	114
16,5	240	180	220	135	170	155
18,0	290	250	270	195	220	220
20,5	400	330	400	330	250	250

PW - with blockade hangers

Height of box (cm)	Profil PA 43				Profil PA 43 with mosquito- net	
	Ø 40	PW 40	Ø 60	PW 60	Ø 40	Ø 60
13,8	110	-	-	-	-	-
15,0	120	-	110	-	90	75
16,5	160	160	160	135	120	130
18,0	215	220	210	190	167	160
20,5	340	300	265	250	250	250

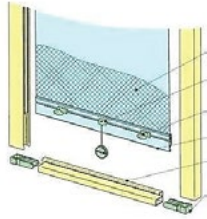
PW - with blockade hangers

Height of box (cm)	Profil PE 41				Profil PE 41 with mosquito- net	
	Ø 40	PW 40	Ø 60	PW 60	Ø 40	Ø 60
13,8	110	-	90	-	-	-
15,0	140	-	120	-	-	-
16,5	180	165	160	112	100	80
18,0	230	200	200	150	142	118
20,5	290	270	300	245	236	212

PW - with blockade hangers



Locking system for mosquito's bottom rail



HOOK-LOCK



CLICK-LOCK

Under-plaster roller shutter is installed after montage of windows but before the building's thermal insulation is made. It can be installed on the wall but it's necessary to take the dimensions of the box into account when planning the insulation of the building. It's important to provide insulation for the surface between the box and lintel. It's required to properly prepare window holes so that box of the roller shutter is fully covered by insulation or plaster.

2.2. PRICE LIST OF STANDARD ROLLER SHUTTERS



Type	Price for 1 m ² (EUR)
Profile PA 39	55,50
Profile PA 43	63,50
Profile PE 41	135,00
Profile PE 41 with WK2*	195,00

The minimum area of settlement is 1 m²

Price includes:

- Shutter box in standard colour
- Curtain in standard colour
- Guiding rails in standard colour
- Bottom rail in standard colour
- Tape or rope winder
- Tape or rope

* Roller shutters with increased resistance to burglary WK2 according to the standard EN1627: 1999 profile PE41, guides PPW 66, hangers blockade. max. width 2000 mm, operation solely by means of electric drive.

ADDITIONAL CHARGES	
TYPE	PRICE (EUR)
Slats PA 39 in extra colour	+ 7,75 EUR / m ²
Slats PA 43 in extra colour	+ 9,75 EUR /m ²
Box in colour: golden oak, walnut, mahogany	+ 9%
Guiding rails in colour: golden oak, walnut, mahogany, winchester	+ 4%
Bottom rail in colour: golden oak, walnut, mahogany, winchester	+ 2%
Box + side caps in RAL colour*	+ 11%
Guiding rails in RAL colour*	+ 5%
Bottom rail in RAL colour*	+ 2%
Side caps in wood imitation structural paint (golden oak, walnut, mahogany)	+ 18 EUR /set
Box' height increasing for each following size	+ 5%
Roller shutters' combination with one common drive	+ 20 EUR /pc
Guiding rail PP 45 in standard colour	+ 2 EUR / lm
Guiding rail PP 68 in standard colour	+ 6 EUR /lm
Angular guiding rail PK 53 in standard colour	+ 6,25 EUR /lm
Guiding rail 12 mm PP53/ODS in standard colour	+ 6,00 EUR /lm
Distance 20 mm D/PP for PP 53 guiding rail	+ 5,75 EUR /lm
Strengthened guiding rail PPW 66	+ 16,75 EUR /lm
Hook-lock mosquito-net (price of 1 m ²)	+ 38,00 EUR /m ²
Click-lock mosquito-net (price of 1 m ²)	+ 44,75 EUR / m ²
Independent division of Easy Click anti-mosquito net	+ 12,5 EUR/pcs

* except glitter colors

DRIVE`S OPTIONS		ADDITIONAL SECURITY OPTIONS	
Manual tape/rope winder	included in price	Manual bolt	3,75 EUR / set
Spring-drive	22,25 EUR / set	Automatic bolt	17 EUR / set
Crank winder	21 EUR /set	Key-lock + handle	34 EUR / set
ACE crank-mechanism + crank with Cardan joint	72,25 EUR/ set	Blockade hanger	5 EUR / pc
Electric drive	page 37-46	PW hanger	9,25 EUR / pc

NOTE

The maximum width of the shutter with mosquito net is 160 cm. Maximum height of the shutter with mosquito-net is 250 cm. Maximum area is 3 m².

Price list contains net prices – they do not include VAT 23%.

2.3. PRICE LIST OF ROLLER SHUTTERS IN HALF AND QUATER - ROUND BOX



Type	Price for 1 m² (EUR)
Profile PA 39	61
Profile PA 45	69
Profile PE 41	140,75
Profile PE 41 z WK2*	200,50

The minimum area of settlement is 1 m²

Price includes:

- Shutter box in standard colour
- Curtain in standard colour
- Guiding rails in standard colour
- Bottom rail in standard colour
- Tape or rope winder

* Roller shutters with increased resistance to burglary WK2 according to the standard EN1627: 1999 profile PE41, guides PPW 66, hangers blockade. max. width 2000 mm, operation solely by means of electric drive.

ADDITIONAL CHARGES	
TYPE	PRICE (EUR)
Slats PA 39 in extra colour	+ 7,75 EUR/m²
Slats PA 43 in extra colour	+ 9,75 EUR/m²
Guiding rails in colour: golden oak, walnut, mahogany, winchester, dark oak	+ 4%
Bottom rail in colour: golden oak, walnut, mahogany, winchester, dark oak	+ 2 %
Box + side caps in RAL colour*	+ 11%
Guiding rails in RAL colour*	+ 5%
Bottom rail in RAL colour*	+ 2%
Box' height increasing for each following size	+ 5%
Roller shutters' combination with one common drive	+ 20 EUR /pc
Guiding rail PP 45 in standard colour	+ 2 EUR /lm
Guiding rail PP 68 in standard colour	+ 6,25 EUR /lm
Angular guiding rail PK 53 in standard colour	+ 4,50 EUR/lm
Guiding rail 12 mm PP53/ODS in standard colour	+ 6 EUR / lm
Distance 20 mm D/PP for PP 53 guiding rail	+ 5,75 EUR /lm
Strengthened guiding rail PPW 66	+ 16,75 EUR /lm
Hook-lock mosquito-net (price of 1 m²)	+ 38 EUR /m²
Click-lock mosquito-net (price of 1 m²)	+ 44,75 EUR /m²
Independent division of Easy Click anti-mosquito net	+ 12,5 EUR/pcs

* except glitter colors

DRIVE`S OPTIONS		ADDITIONAL SECURITY OPTIONS	
Manual tape/rope winder	included in price	Manual bolt	3,75 EUR /set
Spring-drive	22,25 EUR / set	Automatic bolt	17 EUR / set
Crank winder	21 EUR /set	Key-lock + handle	34 EUR /set
ACE crank-mechanism + crank with Cardan joint	72,50 EUR/ set	Blockade hanger	5 EUR /pc
Electric drive	page 37-46	PW hanger	9,25 EUR /pc

NOTE

The maximum width of the shutter with mosquito net is 160 cm. Maximum height of the shutter with mosquito-net is 250 cm. Maximum area is 3 m².

3. STANDARD ROLLER SHUTTERS IN ALUMINIUM BOX - UNDERPLASTER

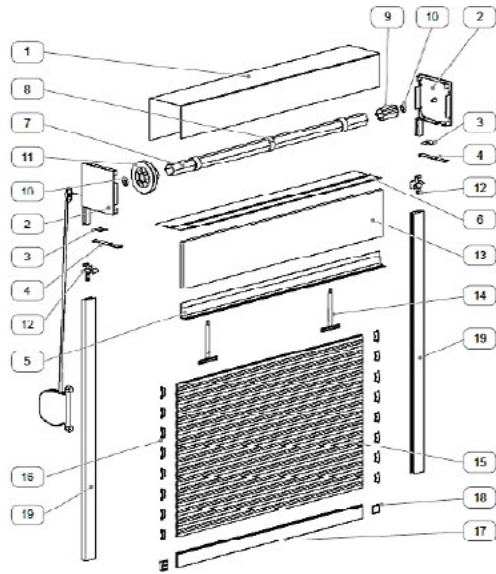


BOX PUTZ



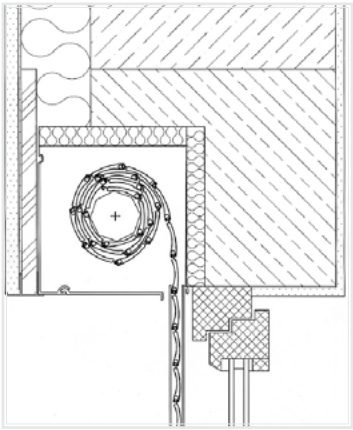
BOX SPE

CONSTRUCTION OF ROLLER SHUTTER

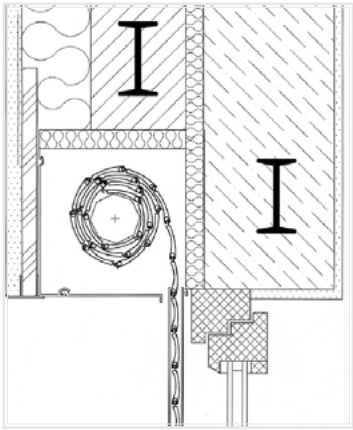


- 1 - SHUTTER BOX
- 2 - SIDE CAP
- 3 - DISTANCE TO REVISION PANEL
- 4 - REVISION PANEL'S CAP
- 5 - REVISION PANEL'S BRACKET
- 6 - REVISION PANEL
- 7 - OCTAGONAL TUBE
- 8 - ADAPTING RING
- 9 - CAP
- 10 - BEARING
- 11 - PULLEY
- 12 - ENTRY GUIDE
- 13 - PLASTER CARRIER
- 14 - CURTAIN'S HANGER
- 15 - CURTAIN
- 16 - CURTAIN'S SIDE LOCK
- 17 - BOTTOM RAIL
- 18 - BOTTOM RAIL'S SIDE LOCK
- 19 - GUIDING RAIL

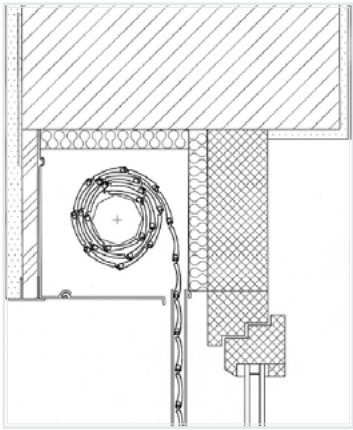
MOUNTING OPTIONS



Shutter box built-in the wall.



Shutter box built-in the lintel.



Shutter box built-in under the lintel.

3.1. MAXIMAL HEIGHT OF ROLLER SHUTTERS

Height of box (cm)	Profile PA 39				Profile PA 39 with mosquito net	
	Ø 40	PW 40	Ø 60	PW 60	Ø 40	Ø 60
13,8	155	-	140	-	-	-
15,0	195	120	170	-	115	114
16,5	240	180	220	135	170	155
18,0	290	250	270	195	220	220
20,5	400	330	400	330	250	250

PW - with blockade hangers

Height of box (cm)	Profile PA 43				Profile PA 43 with mosquito net	
	Ø 40	PW 40	Ø 60	PW 60	Ø 40	Ø 60
13,8	141	-	115	-	-	-
15,0	176	-	154	-	103	81
16,5	250	162	232	180	160	151
18,0	298	246	280	233	246	190
20,5	402	390	385	352	250	250

PW - with blockade hangers

Height of box (cm)	Profile PE 41				Profil PE 41 with mosquito net	
	Ø 40	PW 40	Ø 60	PW 60	Ø 40	Ø 60
13,8	110	-	90	-	-	-
15,0	140	-	120	-	-	-
16,5	180	165	160	112	100	80
18,0	230	200	200	150	142	118
20,5	290	270	300	245	236	212

Height of box (cm)	Profile PA 52
	Ø 60
13,8	85
15,0	120
16,5	160
18,0	200
20,5	270

3.2. PRICE LIST OF ROLLER SHUTTERS IN SPE BOX



Type	Price for 1 m² (EUR)
Profile PA 39	63,50
Profile PA 43	72
Profile PA 52	91,50
Profile PE 41	143,50
Profile PE 41 with WK2*	203,25

The minimum area of settlement is 1 m²

Price includes:

- Shutter box (revision panel) in standard colour
- Curtain in standard colour
- Guiding rails in standard colour
- Bottom rail in standard colour
- Tape or rope winder

NOTE

The maximum width of the shutter with mosquito net is 160 cm. Maximum height of the shutter with mosquito-net is 250 cm. Maximum area is 3 m².

* **Roller shutters with increased resistance to burglary WK2 according to the standard EN1627: 1999 profile PE41, guides PPW 66, hangers blockade. max. width 2000 mm, operation solely by means of electric drive.**

ADDITIONAL CHARGES	
Type	Price (EUR)
Slats PA 39 in extra colour	+ 7,75 EUR / m²
Slats PA 45 extra colour	+ 9,75 EUR /m²
Revision panel in colour: golden oak, walnut, winchester, swamp oak	+ 9%
Guiding rails in colour: golden oak, walnut, mahogany, winchester, swamp oak	+ 4%
Bottom rail in colour: golden oak, walnut, mahogany, winchester, swamp oak	+ 2%
Revision panel in RAL colour*	+ 3%
Guiding rails in RAL colour*	+ 5%
Bottom rail in RAL colour*	+ 2%
Box’ height increasing for each following size	+ 5%
Roller shutters’ combination with one common drive	+ 20 EUR / pc
Guiding rail PP 45 in standard colour	+ 1,75 EUR /lm
Guiding rail PP 68 in standard colour	+ 6 EUR /lm
Angular guiding rail PK 53 in standard colour	+ 4,50 EUR /lm
Guiding rail with distance 12 mm PP53/ODS in standard colour	+ 6 EUR /lm
Distance 20 mm D/PP for PP 53 guiding rail	+ 5,75 EUR/lm
Strenghtenen guiding rail PPW 66	+ 16,75 EUR / lm
Hook-lock mosquito-net (price of 1m²)	+ 38 EUR /m²
Click-lock mosquito-net (price of 1 m²)	+ 44,75 EUR /m²
Independent division of Easy Click anti-mosquito net	+ 12,5 EUR/pcs

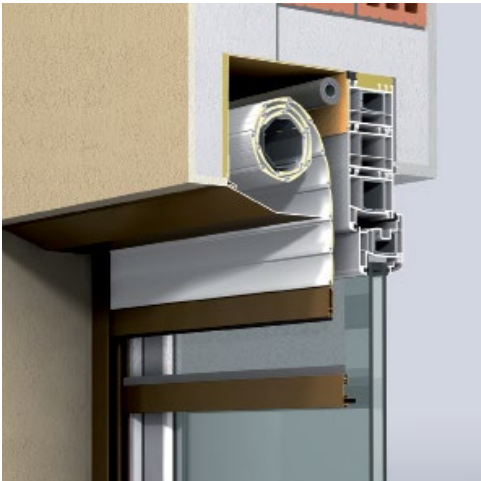
* except glitter colors

DRIVE `S OPTIONS		ADDITIONAL SECURITY OPTIONS	
Manual tape/rope winder	included in price	Manual bolt	3,75 EUR / set
Spring-drive	22,25 EUR / set	Automatic bolt	17 EUR / set
Crank winder	21 EUR /set	Key-lock + handle	34 EUR / set
ACE crank-mechanism + crank with Cardan joint	72,50 EUR/ set	Blockade hanger	5 EUR / pc
Electric drive	page 37-46	PW hanger	9,25 EUR /pc

NOTE

Standard roller shutters (with mixed curtain: perforated and non-perforated profiles) are not products designed to provide total interior darkness. On request, non-perforated profiles can be used to provide total darkness.

3.3. PRICE LIST OF ROLLER SHUTTERS IN PUTZ BOX



Type	Price for 1 m² (EUR)
Profile PA 39	66,50
Profile PA 43	74,50
Profile PA 52	94,00
Profile PE 41	147,25
Profile PE 41 with WK2*	206,00

The minimum area of settlement is 1 m²

Price includes:

- Shutter box (revision panel) in standard colour
- Curtain in standard colour
- Guiding rails in standard colour
- Bottom rail in standard colour
- Tape or rope winder

NOTE

The maximum width of the shutter with mosquito net is 160 cm. Maximum height of the shutter with mosquito-net is 250 cm. Maximum area is 3 m².

* Roller shutters with increased resistance to burglary WK2 according to the standard EN1627: 1999 profile PE41, guides PPW 66, hangers blockade. max. width 2000 mm, operation solely by means of electric drive.

ADDITIONAL CHARGES	
Type	Price
Slats PA 39 in extra colour	+ 7,75 EUR /m²
Slats PA 45 extra colour	+ 9,75 EUR /m²
Revision panel in colour: golden oak, walnut, mahogany	+ 9%
Guiding rails in colour: golden oak, walnut, mahogany	+ 4%
Bottom rail in colour: golden oak, walnut, mahogany	+ 2%
Revision panel in RAL colour*	+ 3%
Guiding rails in RAL colour*	+ 5%
Bottom rail in RAL colour*	+ 2%
Box' height increasing for each following size	+ 5%
Roller shutters' combination with one common drive	+ 20 EUR /pc
Guiding rail PP 45 in standard colour	+ 1,75 EUR /lm
Guiding rail PP 68 in standard colour	+ 6 EUR / m
Angular guiding rail PK 53 in standard colour	+ 4,50 EUR /lm
Guiding rail with distance 12 mm PP53/ODS in standard colour	+ 6 EUR /lm
Distance 20 mm D/PP for PP 53 guiding rail	+ 5,75 EUR /lm
Strengthened guiding rail PPW 66	+ 16,75 EUR / lm
Hook-lock mosquito-net (price of 1 m²)	+ 38 EUR / m²
Click-lock mosquito-net (price of 1 m²)	+ 44,75 EUR /m²
Independent division of Easy Click anti-mosquito net	+ 12,5 EUR/pc

* except glitter colors

DRIVE`S OPTIONS	
Manual tape/rope winder	included in price
Spring-drive	22,25 EUR / set
Crank winder	21 EUR /set
ACE crank-mechanism + crank with Cardan joint	72,50 EUR/ set
Electric drive	page 37-46

ADDITIONAL SECURITY OPTIONS	
Manual bolt	3,75 EUR / set
Automatic bolt	17 EUR / set
Key-lock + handle	34 EUR / set
Blockade hanger	5 EUR / pc
PW hanger	9,25 EUR / pc

NOTE

Standard roller shutters (with mixed curtain: perforated and non-perforated profiles) are not products designed to provide total interior darkness. On request, non-perforated profiles can be used to provide total darkness.

4. ROLLER SHUTTERS IN PVC BOX - TOP-MOUNTED



1. 170X230
2. 210X230
3. 240X255
OPOTERM



1. 165X240
2. 205X240
3. 260X240
VEGAS REVO



1.165X175
2.205X215
CLEVERBOX



1. 165X255
2. 205X255
3. 245X255
CLEVERBOX WIDE

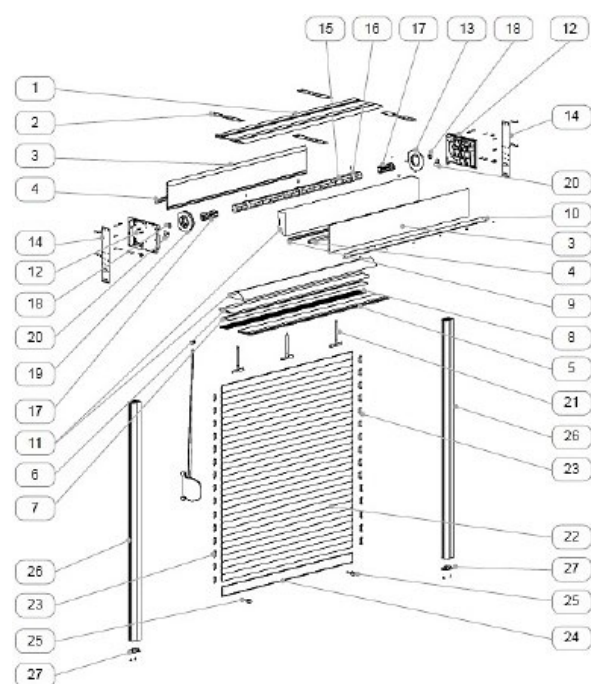


1. 260x265
2. 260x305
3. 260x365
AK-FLEX INTERNAL REVISION



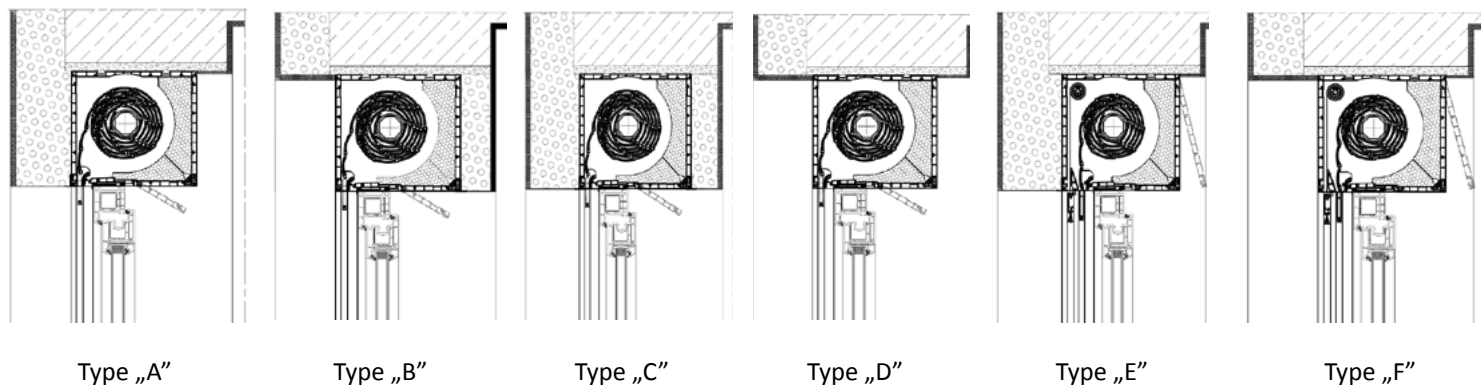
1. 260x265
2. 260x305
3. 260x365
AK-FLEX EXTERNAL REVISION

CONSTRUCTION OF ROLLER SHUTTER

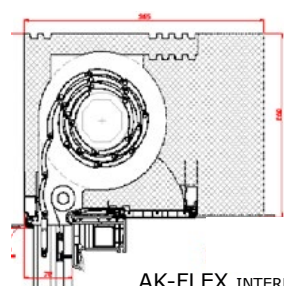


- | | |
|--------------------------------|--------------------------------|
| 1 - BOX – TOP PROFILE | 19 - PULLEY |
| 2 - MOUNTAGE ANCHOR | 20 - ENTRY GUIDE |
| 3 - SIDE CAP | 21 - CURTAIN'S HANGER |
| 4 - SIDE STEEL REINFORCEMENT | 22- CURTAIN |
| 5 - REVISION PANEL | 23 - PROFILE'S SIDE LOCK |
| 6 - BOX – BOTTOM PROFILE | 24 - BOTTOM RAIL |
| 7 - BOTTOM STEEL REINFORCEMENT | 25 - BOTTOM RAIL'S BUMPER |
| 8 - ADAPTIVE-PROFILE | 26 - GUIDING RAIL |
| 9 - CLICK PROFILE | 27 - GUIDING RAIL'S END CAP |
| 10 - PLASTER ANGLE-CARRIER | |
| 11 - BOX ISOLATION | |
| 12 - SIDE CAP | |
| 13 - COVER PLATE | (optionally with extra charge) |
| 14 - WINDOW FRAME CONNECTOR | |
| 15 - OCTAGONAL TUBE | |
| 16 - ADAPTING RING | |
| 17 - CAP | |
| 18 - BEARING | |

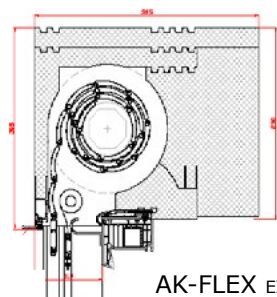
MOUNTING OPTIONS



NOTICE: Option „B“ and „C“ unavaible in Cleverbox 165x175mm, 205x215mm.



AK-FLEX INTERNAL REVISION



AK-FLEX EXTERNAL REVISION

Adaptation profiles for top-mounted boxes

Table to coose profiles for Vegas Revo system

FAP ALU universal	AP6	AP7	AP8	AP-PVC*
Wooden windows	Veka	Schuco	Gealan	For anti-mosquito nets
Brugmann (73)	Avantgarde	Aluplast	Rehau	Uniwersal
Salamander	Deceuninck	Ideal 4000	Trocal	
Trocal 88+	Salamander (76)	Trocal A5		
Spectus 21080	Drutex	Drutex		
Spectus TK71	Spectus ES002	Spectus ES002		
KBE 88	Decco	KBE		
BM 73, BLU 82	Oknoplast			

* for box 260x240 mm only AP-PCV profile.

4.1. MAXIMAL HEIGHT OF ROLLER SHUTTERS

OPOTERM											
Height of box (cm)	Profile PA 39						Profile PA 43				Profile PA 52
	Ø 40	PW 40	Ø 60	PW 60	with mosquito net		Ø 40	Ø 60	with mosquito net		Ø 60
					Ø 40	Ø 60			Ø 40	Ø 60	
17,0	189	122	173	98	145	120	172	146	146	129	115
21,0	323	286	327	231	220	195	312	325	230	204	225
24,0	446	394	446	402	250	250	168	442	250	250	320

VEGAS REVO											
Height of box (cm)	Profile PA 39						Profile PA 43				Profile PA 52
	Ø 40	PW 40	Ø 60	PW 60	with mosquito net*		Ø 40	Ø 60	with mosquito net*		Ø 60
					Ø 40	Ø 60			Ø 40	Ø 60	
16,5	200	140	190	100	-	-	197	171	-	-	120
20,5	350	260	310	250	230	250	312	325	210	184	225
26	400	340	370	320	250	250	443	396	250	250	275

*Possible to install mosquito net independently divided

CLEVERBOX/ CLEVERBOX WIDE											
Height of box (cm)	Profile PA 39						Profile PA 43				Profile PA 52
	Ø 40	PW 40	Ø 60	PW 60	with mosquito net*		Ø 40	Ø 60	with mosquito net*		Ø 60
					Ø 40	Ø 60			Ø 40	Ø 60	
16,5	150	-	145	-	80	-	202	146	-	-	100
20,5	260	200	250	180	160	150	317	280	210	154	175
24,5	350	300	320	260	250	250	443	356	250	250	275

AK-FLEX									
Height of box (cm)	Profile PA 39					Profile PA 43			Profile PA 52
	Ø 40	PW 40	Ø 60	PW 60	with mosquito net	Ø 60	with mosquito net	Ø 60	Ø 60
26,0	350	300	325	260	350	325	375	375	250

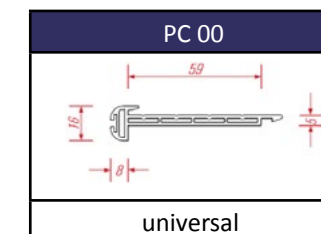
PW - with blockade hangers

NOTICE: in case of roller shutter wider than 200 we advice to use the console to strengthen.

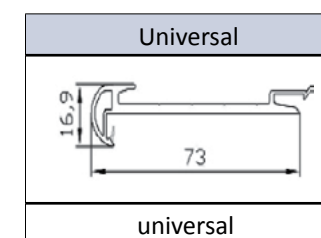
Adaptive-profiles for OPOTERM system

PSA	PSAW (H=6,8mm)	PSAW (H=8mm)
Wooden windows	KBE	Gealan
Aluplast	Aluplast	Rehau
Gealan		Veka
Rehau		Trocal
Veka		Dobroplast
Foris		
Salamander		

Adaptive-profiles for CLEVERBOX system



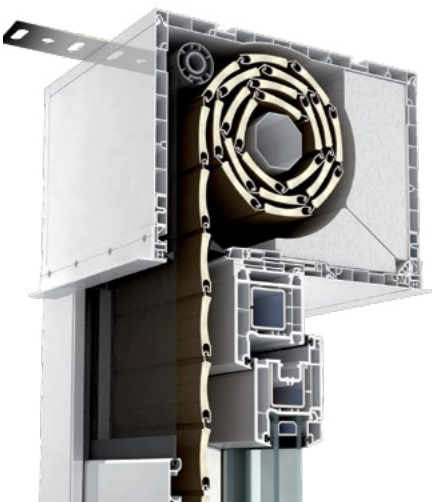
universal



universal

Adaptive-profiles for AK-FLEX system

4.2. PRICE LIST OF ROLLER SHUTTERS IN OPOTERM BOX



Type	Price for 1 m ² (EUR)
Profile PA 39	61,25
Profile PA 43	69,25
Profile PA 52	80,00

The minimum area of settlement is 1 m²
Price includes:

- Shutter box in standard colour
- Curtain in standard colour
- Guiding rails in standard colour
- Bottom rail in standard colour
- Tape or rope winder
- Tape – 5 m

NOTE
The maximum width of the shutter with mosquito net is 160 cm. Maximum height of the shutter with mosquito-net is 250 cm. Maximum area is 3 m².

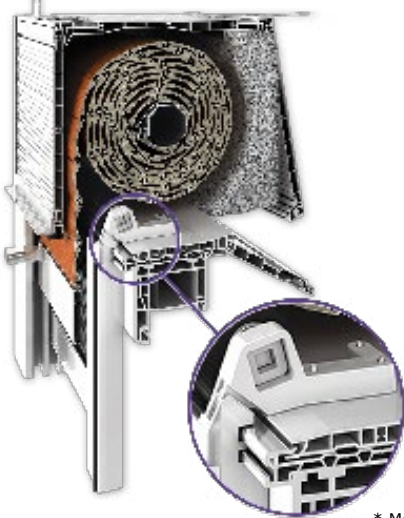
ADDITIONAL CHARGES		
TYPE	PRICE (EUR)	
Slats PA 39 in extra colour	+ 7,75 EUR/m ²	
Slats PA 343 in extra colour	+ 9,75 EUR/m ²	
Slats PA 52 in extra colour	+ 10,50 EUR/m ²	
Veneer depends on price group (page 7)	D	D2
1-side Renolit veneer OUTSIDE (box, guiding rails, bottom rail)	+ 15%	+ 25%
1-side Renolit veneer INSIDE (box, revision panel)	+ 10%	+ 20%
2-side Renolit veneer (box, guiding rails, bottom rail, revision panel)	+ 25%	+ 45%
Wood imitation guiding rails	+ 7%	+ 11%
Wood imitation revision panel	+ 5%	+ 9%
Wood imitation bottom rail	+ 3%	
Aluminium guiding rails in RAL colour*	+ 9,75 EUR/lb	
Box' height increasing for each following size	+ 5%	
Roller shutters' combination with one common drive	+ 29 EUR/pc	
Click-lock mosquito-net (charge for 1 m ²)	+ 51,75 EUR/m ²	
Console strengtning	+ 18,25 EUR/pc	
Montage anchor	+ 0,42 EUR/pc	
Plaster angle-carrier in colors: white RAL 9016, dark brown RAL 8019, anthracite RAL 7016	+ 0,5 EUR/lb	
Painting of sides*	+ 5,00 EUR /couple- minimum 75,00 EUR	
Overlay of side cover – oval or rectangular – white or dark brown	+ 5,00 EUR/couple	
Internal wall cap – oval	+ 2,5 EUR/m	

DRIVE`S OPTIONS	
Manual tape winder	included in price
Spring-drive	21 EUR/ set
ACE crank-mechanism + crank with Cardan joint	72,5 EUR / set
Electric drive	page 37-46

plaster carrier - colours: unvarnished, white Ral 9016, dark brown Ral 8019, grey anthracite Ral 7016, golden oak.

NOTE
Standard roller shutters (with mixed curtain: perforated and non-perforated profiles) are not products designed to provide total interior darkness. On request, non-perforated profiles can be used to provide total darkness.

4.3. PRICE LIST OF ROLLER SHUTTERS IN VEGAS REVO BOX



Type	Price for 1 m ² (EUR)
Profile PA 39	61,25
Profile PA 43	69,25
Profile PA 52	80,00

The minimum area of settlement is 1 m²
Price includes:

- Shutter box in standard colour
- Curtain in standard colour
- Guiding rails in standard colour
- Bottom rail in standard colour
- Tape or rope winder
- Tape – 5 m

NOTE
The maximum width of the shutter with mosquito net is 160 cm. Maximum height of the shutter with mosquito-net is 250 cm. Maximum area is 3 m².

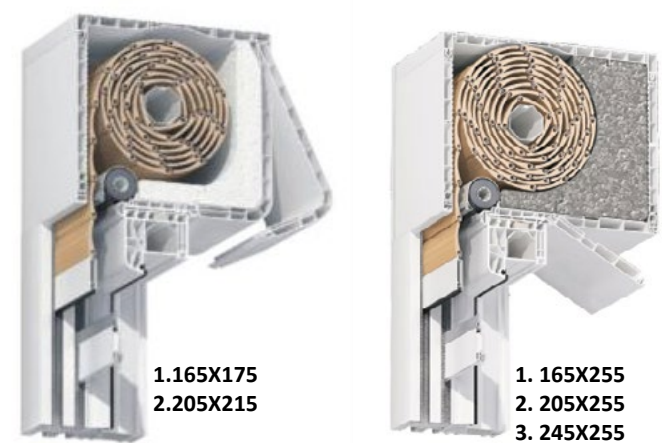
ADDITIONAL CHARGES		
TYPE	PRICE (EUR)	
Slats PA 39 in Extra colour	+ 7,75 EUR/m ²	
Slats PA 43 in Extra colour	+ 9,75 EUR/m ²	
Slats PA 52 in Extra colour	+ 10,5 EUR/m ²	
Veneer depends on price group (page 7)	D	D2
1-side Renolit veneer OUTSIDE (box, guiding rails, bottom rail)	+ 15%	+ 25%
1-side Renolit veneer INSIDE (box, revision panel)	+ 10%	+ 20%
2-side Renolit veneer (box, guiding rails, bottom rail, revision panel)	+ 25%	+ 45%
Wood imitation guiding rails	+ 7%	+ 11%
Wood imitation revision panel	+ 5%	+ 9%
Wood imitation bottom rail	+ 3%	
Aluminium guiding rails in RAL colour*	+ 7,75 EUR/lb	
End list in RAL color*	+ 5%	
Box' height increasing for each following size	+ 5%	
Roller shutters' combination with one common drive	+ 20 EUR/pc	
Click-lock mosquito-net (charge for 1 m ²)	+ 51,75 EUR/m ²	
Independent division of Easy Click anti-mosquito net	+ 13 EUR/pc	
Console strengtning	+ 18,25 EUR/pc	
Montage anchor	+ 0,12 EUR/pc	
Plaster angle-carrier in colors: white, anthracite, carmel	+ 0,5 EUR/lb	
Painting of sides*	+ 5,00 EUR /couple- minimum 75,00 EUR	
Mask of side cap in white	+ 5,00 EUR/couple	

DRIVE`S OPTIONS	
Manual tape winder	included in price
Spring-drive	20 EUR/set
ACE crank-mechanism + crank with Cardan joint	50 EUR/set
Electric drive	page 37-46

plaster carrier - colour : unvarnished

NOTE
Standard roller shutters (with mixed curtain: perforated and non-perforated profiles) are not products designed to provide total interior darkness. On request, non-perforated profiles can be used to provide total darkness.

4.4. PRICE LIST OF ROLLER SHUTTERS IN CLEVERBOX/CLEVERBOX WIDE



Type	Price for 1m² (EUR)
Profile PA 39	61,25
Profile PA 45	69,25

The minimum area of settlement is 1m²

Price contains:

- Shutter in standard colour
- Curtain in standard colour
- Guiding rails in standard colour
- Bottom rail in standard colour
- Tape winder

NOTE

The maximum width of the shutter with mosquito net is 160 cm. Maximum height of the shutter with mosquito-net is 250 cm. Maximum area is 3 m².

ADDITIONAL CHARGES		
TYPE	PRICE (EUR)	
Slats PA 39 in Extra colour	+ 7,75 EUR/m²	
Slats PA 43 in Extra colour	+ 9,75 EUR/m²	
Slats PA 52 in Extra colour	+ 10,5 EUR/m²	
Veneer depends on price group (page 7)	D	D2
1-side Renolit veneer OUTSIDE (box, guiding rails, bottom rail)	+ 15%	+ 25%
1-side Renolit veneer INSIDE (box, revision panel)	+ 10%	+ 20%
2-side Renolit veneer (box, guiding rails, bottom rail, revision panel)	+ 25%	+ 45%
Wood imitation guiding rails	+ 7%	+ 11%
Wood imitation revision panel	+ 5%	+ 9%
Wood imitation bottom rail	+ 3%	
Aluminium guiding rails in RAL colour*	+ 7,75 EUR/lb	
End list in RAL color*	+ 5%	
Box' height increasing for each following size	+ 5%	
Roller shutters' combination with one common drive	+ 20 EUR/pc	
Click-lock mosquito-net (charge for 1 m²)	+ 51,75 EUR/m²	
Independent division of Easy Click anti-mosquito net	+ 13 EUR/pc	
Console strengtning	+ 18,25 EUR/pc	
Montage anchor	+ 0,12 EUR/pc	
Plaster angle-carrier in colors: white, anthracite, carmel	+ 0,5 EUR/lb	
Painting of sides*	+ 5,00 EUR /couple- minimum 75,00 EUR	
Mask of side cap in white	+ 5 EUR/couple	

DRIVE`S OPTIONS	
Manual tape winder	included in price
Spring in the tube winding	21,25 EUR / Set
Crank winder	20 EUR / Set
ACE crank-mechanism + crank with Cardan joint	50 EUR / Set
Electric drive	page 37-46

ADDITIONAL SECURITY OPTIONS	
Manual bolt	3,50 EUR / set
Automatic bolt	16,25 EUR / set
Key-lock + handle	32,50 EUR / set
Blockade hanger	8,75 EUR /pc
PW hanger	4,75 EUR /pc

NOTE

Standard roller shutters (with mixed curtain: perforated and non-perforated profiles) are not products designed to provide total interior darkness. On request, non-perforated profiles can be used to provide total darkness.

4.5. PRICE LIST OF ROLLER SHUTTER IN AK-FLEX



1. 265x260
2. 305x260
3. 365x260

1. 265x260
2. 305x260
3. 365x260

Type	Price for 1 m² (EUR)
Profile PA 39	159 EUR
Profile PA 43	165,75 EUR
Profile PA 52	175 EUR

The minimum area of settlement is 1m²

Price contains:

- Styrofoam box 265 – revision cap inside PVC white
- Curtain (pancer) in standard color
- Guiding rails PVC white
- Aluminum end list in standard color
- Tape winder
- Tape

NOTE

Maximal width of roller shutter with anti-mosquito net is 160 cm. Maximal height of roller shutter with anti-mosquito net is 250 cm. Maximal surface is 3 m².

CHARGES	
TYPE	PRICE (EUR)
Box AK-F 305 with internal revision	+ 12,50 EUR/lb
Box AK-F 365 with internal revision	+ 30 EUR/lb
Box AK-F 415 with internal revision	+ 50 EUR/lb
Box AK-F with external revision	+ 5%
Single PVC guiding rail with Renolit veneer	+ 8,75 EUR/lb
Double PVC guiding rail with Renolit veneer	+ 11,25 EUR/lb
Adapter for PVC single guiding rail in veneer	+ 14,50 EUR/lb
Adapter for PVC double guiding rail in veneer	+ 18 EUR/lb
AL single guiding rail in RAL color*	+ 21 EUR/lb
AL double guiding rail in RAL color*	+ 26,50 EUR/lb
Adapter for AL single guiding rail in RAL color*	+ 19,25 EUR/lb
Adapter for AL double guiding rail in RAL color*	+ 22 EUR/lb
Cover for net chamber in guiding rail/adapter AL	+ 9,50 EUR/lb
Easy Click anti-mosquito net	+ 63,75 EUR/m²
Blocking hanger	+ 5 EUR/pc

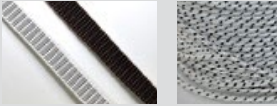
* Except glitter colors – page 48

DRIVE'S OPTION	
Crank winder	21 EUR/set
ACE crank mechanism + crank with Cardan joint	72,50 EUR/set
Electrical drive	page 39-46

NOTE

Roller shutters are not elements which attend for total blackout the space. In case of necessary of blackout, please mark it on order form.

5. EXTRAS TO ROLLER SHUTTERS

PRICE LIST (Possible to purchase the elements separately)			
Type	Name	Description	Price
	rope winder	Rope or tabe winder	5 EUR / pc
	tape winder	Rope or tape	0,25 EUR / Im
	spring drive	Mechanism which helps to operate roller shutter.	21,25 EUR/ pc
	manual bolt	Manual lock, which blocks curtain's bottom rail in "closed" position.	3,5 EUR / set
	automatic bolts	Automatic lock, which blocks curtain's bottom rail in "closed" position. Automatically released during opening.	16,26 EUR / set
	key-lock	Masking plate in colours: white, grey, brown, dark brown. 3 keys included.	27,50 / set
	PVC handle	Used with spring drive or key-lock (white, dark brown)	5 EUR/ pc
	crank-winder	Mechanism to wind tape or rope (white, brown)	20 EUR /pc
	Mignon crank	140 mm crank	
	crank	150 cm crank	50 EUR/ set
	ace crank-mechanism	Gear mechanism to be used with crank	
	cardan-joint	Used with ACE crank-mechanism	
	blockade hanger	Curtain's hanger - eliminates possibility to roll-over the curtain in the box – recommended every 50 cm	8,75 EUR / pc
	Lock to Play hanger	Blocking curtain's hanger. Does not require any special adapting ring – recommended every 50 cm	4,74 EUR/pc

6. PRICE LIST OF RKS

PRICE LIST		
TYPE	Unit	Price
EQUIPMENT FOR ELECTRIC DRIVE		
Tube Ø 60	lm	4,25 EUR
Bearing support, cap Ø 60, PVC bearing, Plate for electric motor	kpl	9,25 EUR
EQUIPMENT FOR MANUAL DRIVE		
Tube Ø 60	lm	4,25 EUR
Tube, Bearing support, Cap Ø 60, Pulley, PVC bearing, Tape entry guide 22 mm, Under-plaster cover of tape winder, Tape (stripe), Tape winder 6 m	kpl	18,75 EUR
ADDITIONS		
Window stabilizer	pc	10,75 EUR
Support for combination	pc	11,75 EUR

ROLLER SHUTTER`S COLOURS OF SLATS, BOXES, GUIDING RAILS

Code	Colour	RAL	Boxes					Guiding rails						Bottom rails	
			SK 180	SK 205	SK 250	SK 300	SK 350	PP 66	PPW 80	PP 89	PP 110	PPW 90	PP 75	LDG/S	LDG/D
01	silver	9006	+	+	L	+	L	+	L	+	+	L	+	+	+
02	white	9016	+	+	+	+	+	+	+	+	+	+	+	+	+
03	grey	7038	+	+	+	+	+	+	+	+	+	+	+	+	+
08	dark brown	8019	+	+	+	+	+	+	+	+	+	+	+	+	+
09	brown	8014	+	+	+	+	+	+	+	+	+	+	+	+	+
23	anthracite	7016	+	+	+	+	+	L	L	+	+	L	+	+	+
RAL			L	L	L	L	L	L	L	L	L	L	L	L	L

Code	Colour	RAL	Slats					
			PA 52	PA 55	PA 77	PE 55	PEK 80	PEK 52
00	unvarnished	-	-	-	-	+	+	+
01	silver	9006	+	+	+	L	L	L
02	white	9016	+	+	+	L	L	L
03	grey	7038	+	+	+	L	L	L
04	dark beige	1019	LM	LM	LM	L	L	L
05	beige	1013	+	+	+	L	L	L
06	dark wood	wood imita-tion	+	+	+	-	-	-
07	light wood		-	+	-	-	-	-
08	dark brown	8019	+	+	+	L	L	L
09	brown	8014	+	+	+	L	L	L
12	red	3003	LM	LM	D	L	L	L
13	green	6005	LM	LM	D	L	L	L
15	creamy white	9001	+	+	D	L	L	L
16	ivory	1015	LM	D	LM	L	L	L
17	green fir	6009	LM	D	D	L	L	L
18	steel blue	5011	LM	D	LM	L	L	L
19	maroon	3005	LM	LM	LM	L	L	L
20	black	9005	LM	LM	D	L	L	L
23	grey anthracite	7016	+	+	+	L	L	L
26	mahogany	wood imita-tion	-	-	-	-	-	-
28	walnut		+	-	+	-	-	-
30	golden oak		+	+	+	-	-	-
31	light grey	7047	+	LM	LM	L	L	L
33	basaltic grey	7012	LM	LM	LM	L	L	L
34	quarz grey	7039	LM	LM	LM	L	L	L
35	concrete grey	7023	LM	LM	L	L	L	L
RAL			L	L	L	L	L	L

+ D L LM *

standart colour

colour with extra charge

requires dry painting, extra charge (Term of realisation is about 10 working days.)

requires wet painting (Term of realisation is about 10 working days.)

colours of RAL codes means colours that are most similar to the real ones.

ADDITIONAL CHARGES	
Blockade hanger	+ 9,25 EUR
Key-lock + handle	+ 34 EUR

ROLLER SHUTTERSMADE OF PROFILES PE 55

ROLLER SHUTTERS MADE OF PROFILE PE 55, WITH INERTIAL BRAKE, GUIDING RAIL PP 75, TUBE Ø 70										
Box (mm)	W/H (m)	2	2,4	2,8	3,2	3,6	4	4,4	4,8	5,2
250	2	987	1134	1280	1427	1573	1719	1866	2012	2159
	2,2	1060	1219	1379	1538	1697	1857	2016	2175	2335
	2,4	1132	1304	1477	1649	1821	1994	2166	2339	2511
	2,6	1204	1390	1575	1760	1946	2131	2317	2502	2687
	2,8	1276	1475	1673	1871	2070	2269	2467	2665	2864
300	3	1367	1581	1795	2009	2224	2438	2651	2865	3080
	3,2	1440	1667	1894	2121	2348	2575	2802	3029	3256
	3,4	1512	1752	1992	2232	2472	2712	2952	3192	3432
	3,6	1584	1837	2090	2343	2596	2849	3102	3355	3608
	3,8	1656	1922	2188	2454	2720	2986	3252	3518	3784
	4	1728	2007	2286	2566	2844	3123	3402	3682	3961
	4,2	1801	2093	2385	2677	2969	3261	3553	3845	4137
	4,4	1873	2178	2483	2788	3093	3398	3703	4008	4313
	4,6	1945	2263	2581	2899	3217	3535	3853	4171	4489
	4,8	2017	2348	2679	3010	3341	3672	4003	4334	4665

PRICE INCLUDES:

Inertial breake, tube Ø70, unvarnished slats, guiding rails PP75 in standard colours , box 250, 300 in standard colour, bottom rail in colour. **Price does not include electric drive.**

ROLLER SHUTTERSMADE OF PROFILES PE 55

Class III according to PN-EN 1627: 2011

ROLLER SHUTTERS MADE OF PROFILE PE 55, PPW 80 OR PPW 90, WITH BLOCKING HANGERS WB, BOTTOM RAIL LDG55/W												
Bottom rails	Box (mm)	W/ H (m)	1	1,2	1,4	1,6	1,8	2	2,2	2,4	2,6	2,8
PPW80	205	1,4	823	885	948	1010	1073	1135	1198	1260	1323	1386
		1,6	870	939	1009	1077	1147	1216	1285	1354	1423	1492
		1,8	918	994	1069	1145	1220	1296	1371	1447	1523	1598
PPW90	250	2	988	1071	1155	1238	1321	1405	1488	1571	1655	1738
		2,2	1036	1126	1216	1305	1395	1485	1575	1665	1754	1844
		2,4	1084	1180	1277	1373	1469	1566	1662	1758	1854	1951
		2,6	1131	1235	1337	1440	1543	1646	1749	1851	1954	2057
		2,8	1179	1289	1398	1507	1617	1726	1835	1945	2054	2163
		3	1239	1357	1474	1591	1708	1825	1942	2060	2177	2294
	300	3,2	1287	1411	1535	1658	1782	1906	2029	2153	2277	2400
		3,4	1335	1465	1596	1726	1856	1986	2116	2246	2376	2507
		3,6	1383	1520	1656	1793	1929	2066	2203	2339	2476	2613
		3,8	1431	1574	1717	1860	2003	2147	2290	2433	2576	2719
		4	1479	1629	1778	1928	2077	2227	2376	2526	2676	2825
		4,2	1527	1683	1839	1995	2151	2307	2463	2619	2776	2932
		4,4	1575	1737	1900	2062	2225	2388	2550	2713	2875	3038

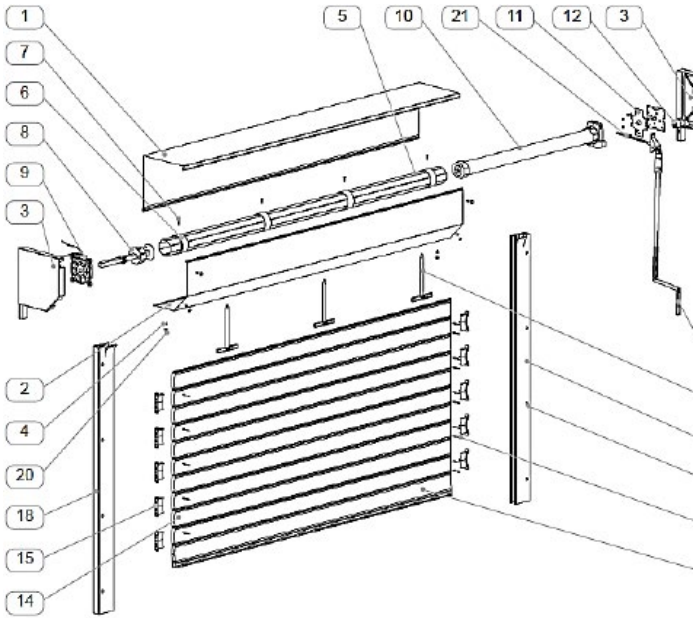
Price includes:

Roller shutter with increased resistance for burlgary, unvarnished slats PE 55 in guiding rails PPW 80 or PPW 90, with blocking han-gers WB, bottom rail LDG 55/W, anti-blulgary set, inertial brake. **Price does not include electric drive.**

CAUTION

- 1. To meet the requirements of the blind is necessary to apply the enhanced guide PPW 80 to 205 or PPW box 90 boxes of 250 and 300, electric propulsion and hangers blockade and LGD55.
- 2. Roller with increased resistance to burglary - Class III according to PN-EN 1627: 2011.

8. ROLLER SHUTTERS MADE OF PA 52, PA 55
CONSTRUCTION OF ROLLER SHUTTER



- 1- ROLLERSHUTTER BOX UPPER SIDE
- 2- ROLLERSHUTTER BOX LOWER SIDE
- 3- SIDE CAP
- 4- GALVANISED SCREW
- 5- OCTAGONAL TUBE
- 6- INCREASING RING
- 7- GALVANISED SCREW
- 8- HOLDER
- 9- INERTIAL BRAKE
- 10- CYLINDER
- 11- CYLINDER HANGER
- 12 - GUIDING ROLLER
- 13 - CURTAIN'S HANGER
- 14 - CURTAIN
- 15 - PROFILE'S SIDE LOCK
- 16 - BOTTOM RAIL
- 17 - ALUMINUM RIVETS
- 18 - GUIDING RAIL
- 19 - GUIDING RAIL'S CAP
- 20 - PAD
- 21 - CARDAN-JOINT
- 22 - CRANK

PRICE LIST OF ROLLER SHUTTERS MADE OF PA 52																					
Box	Rolling guide	H \ W	1	1,2	1,4	1,6	1,8	2	2,2	2,4	2,6	2,8	3	3,2	3,4	3,6	3,8	4	4,2	4,4	4,6
180	PP 66	1	130	146	163	178	194	211	226	242	259	275	290	317	333	348	366	411	417	426	433
		1,2	146	163	182	200	217	237	254	271	290	308	325	354	372	389	409	461	468	477	483
		1,4	159	178	199	217	236	257	276	294	315	334	353	383	402	421	443	501	507	516	523
		1,6	175	195	218	239	259	282	303	324	347	367	388	420	441	462	486	551	558	567	574
		1,8	191	213	238	260	283	308	330	353	378	400	423	457	480	503	528	602	609	618	
		2	206	231	257	282	307	333	358	382	409	433	458	494	519	544	571	653			
205		2,2	233	261	292	320	348	378	406	434	465	493	521	561	589	618					
		2,4	249	279	311	341	372	403	434	464	496	526	556	598							
		2,6	262	294	327	359	390	424	455	487	521	552	584								
250	PP 75	2,8	302	336	373	407	441	477	511	546	582	616									
		3	318	354	393	429	465	503	539	575	614										
		3,2	334	372	413	451	489	529	567	605											
		3,4	350	390	432	472	512	555	594												
		3,6	366	408	452	494	536	580	622												
		3,8	382	426	472	516	560	606													
		4	396	441	489	534	579	627													
300		4,2	424	473	524	572	621														
		4,6	456	509	563	616															
		4,8	472	527	583	638															
		5	488	545	603	660															

- Price includes
- roller shutter box in standard colour
 - slats in standard colour
 - guiding rails in standard colour
 - bottom rails in standard colour

In shadowed area, when roller shutter is fused with central control, photoelectric cell and inertial brake, then it comply with roller gate.

CAUTION
1. Available colours od boxes and guiding rails accordnig to PP 66, PP 75 page 28

PRICE LIST OF ROLLER SHUTTERS MADE OF PA 55																							
Box	Rolling guide	H/W	1	1,2	1,4	1,6	1,8	2	2,2	2,4	2,6	2,8	3	3,2	3,4	3,6	3,8	4	4,2	4,4	4,6	4,8	
205	PP 66	1	134	150	167	185	202	219	236	253	270	288	305	321	338	338	354	370	386	402	420	437	
		1,2	148	166	184	204	223	242	259	279	297	317	336	354	373	373	392	410	427	445	464	483	
		1,4	174	196	219	242	265	288	310	333	355	379	401	424	446	451	473	495	516	538	561	584	
	205	1,6	191	215	240	265	290	316	340	365	390	415	440	465	490	497	521	545	568	593	618	643	
		1,8	204	231	257	284	311	338	364	391	417	445	471	497	524	533	559	584	609	635	662	689	
		2	242	271	301	332	362	393	422	453	483	514	544	574	604	617	646	675	704	733	764		
250	PP 75	2,2	258	290	322	355	388	421	452	485	517	550	583	615	648	662	694	726	757				
		2,4	271	305	339	374	408	443	476	511	545	580	614	648	682	698	732						
		2,6	288	324	360	398	434	471	506	543	580	616	653	689	725	744							
		2,8	302	339	377	416	454	493	530	569	607	646	684	721									
3		335	376	418	461	503	546	587	629	671	714	756											
300		3,2	351	395	440	485	529	574	617	662	706	751											
		3,4	366	411	457	504	550	596	641	688	734												
		3,6	382	430	479	527	576	624	672	721	769												
		3,8	399	449	500	551	602	653	702	753													
		4	413	465	517	570	622	675	726														
		4,2	430	484	539	594	648	703	757														

- Price includes:
- roller shutter box in standard colour
 - slats in standard colour
 - guiding rails in standard colour
 - bottom rails in standard colour

ADDITIONAL CHARGES	
Type	Price
Slats in extra colour	+ 11 EUR / m ²
Bottom rail in extra colour	+ 2%
Box in RAL colour	page 49
Guiding rails in RAL colour	page 49
Bottom rail in RAL colour	page 49
Photocell	page 44
Inertial brake	95,50 EUR/pc

DRIVE`S OPTIONS	
Spring in the tube winding	21,25 EUR / Set
Electric drive	page 39

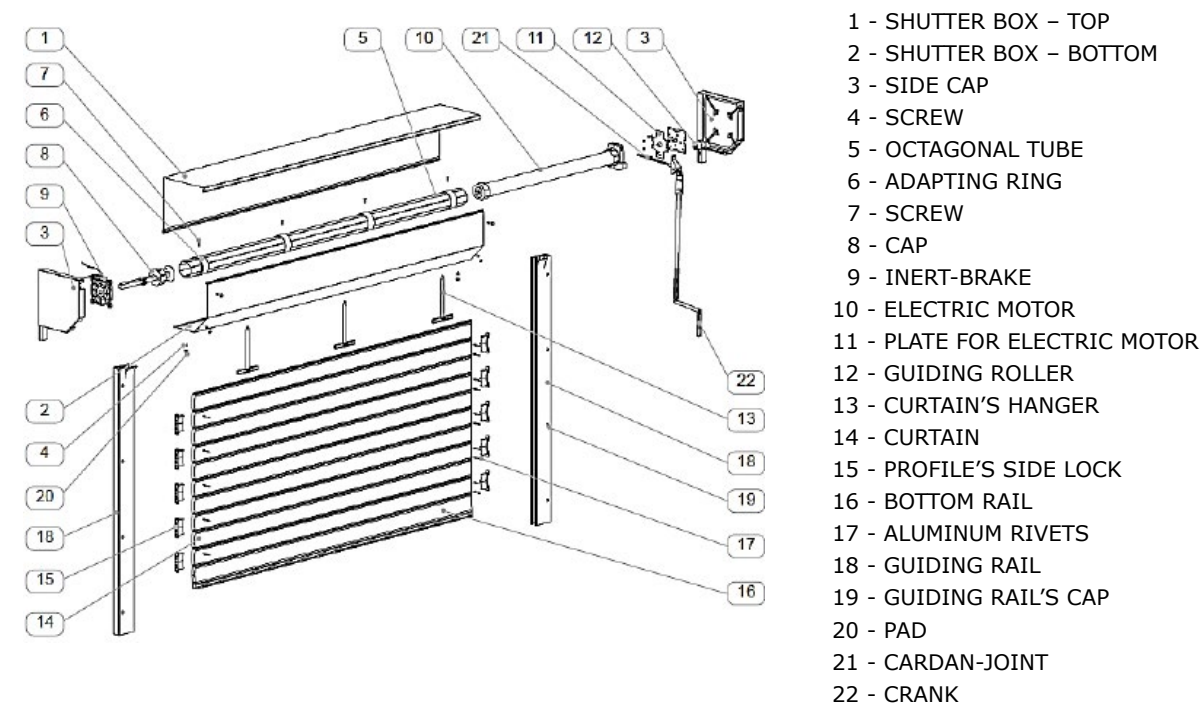
ADDITIONAL SECURITY OPTIONS	
Key-lock + handle	32,50 EUR / Set
Blockade hanger PW	8,75 EUR / pc
Hanger	4,75 EUR/ pc

All additional equipment for roller shutters (such as electric drives and central control units) is designed to make the operation of roller shutters easier. Somfy IO Homecontrol system is a perfect solution in case of multiple devices. IO Homecontrol® radio technology allows mutual communication between devices. It does not generate high installation costs and it does not require special infrastructure – no main line for data transmission or cable control installation required. Thanks to central control you can freely operate roller shutters, gates, heating, lights and other devices without standing up from your armchair.

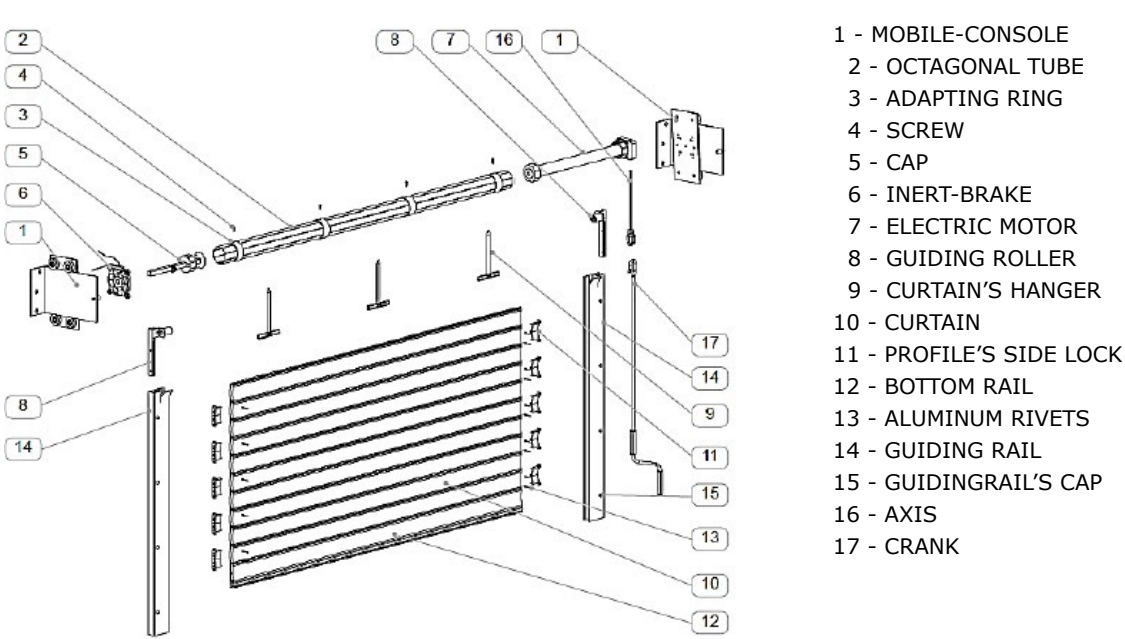


9. ROLLER SHUTTERS - PROFILE PA 77 AND ROLLING GATES

CONSTRUCTION OF ROLLER SHUTTER WITH ALUMINIUM BOX



CONSTRUCTION OF ROLLER SHUTTER WITH MOBILE CONSOLE



9.1. PRICE LIST OF ROLLING GATES IN ALUMINUM BOX MADE OF PROFILE PA 77

box (mm)	Total height (m)	Total width (m). Price for 1m² Euro								
		1,50-2,00	2,01-2,50	2,51-3,00	3,01-3,50	3,51-4,00	4,01-4,50	4,51-5,00	5,01-5,50	5,51-6,00
		Guiding rail PP 89						Guiding rail PP 110		
250	1,5 - 2,00	199	176	161	150	142	136	139	134	130
300	2,01 - 2,50	182	155	142	134	127	122	144	140	136
300	2,51 - 3,00	157	140	140	127	116	112	130	126	123
350 *	3,01 - 4,50	164	144	132	123	117	112	123	-	-

* Box 350 is with built-in console. Box does not have back facet

Price includes:

- Aluminium box in standard colour
 - Tube 70
 - Slats in standard colour
 - Guiding rails PP 89 or PP 110 in standard colour with side cap
 - bottom rail with rubber seal
 - inertial brake
- central unit CRS-435 XG
 - photocell
 - 2 remote control

9.2.PRICE LIST OF ROLLER SHUTTERS MADE OF PROFILE PA 77

PRICE LIST OF ROLLER SHUTTERS MADE OF PROFILE PA 77 (EUR)															
box (mm)	W/H(m)	1,8	2	2,2	2,4	2,6	2,8	3	3,2	3,4	3,6	3,8	4	4,2	4,4
250	2	530	567	603	640	676	713	750	786	823	860	896	933	970	1006
	2,2	567	607	646	685	725	764	804	844	883	922	962	1001	1041	1081
300	2,4	604	647	689	731	773	816	858	901	943	985	1028	1070	1112	1155
	2,6	641	686	732	777	822	867	913	958	1003	1048	1093	1138	1183	1229
	2,8	679	727	775	823	871	919	967	1015	1063	1111	1159	1207	1255	1303
	3	716	767	818	868	919	970	1021	1072	1123	1174	1224	1275	1326	1377
350	3,2	771	825	881	935	991	1046	1101	1156	1211	1266	1321	1376	1431	1486
	3,4	808	866	923	981	1039	1097	1155	1213	1271	1328	1386	1444	1502	1560
	3,6	845	906	966	1027	1358	1149	1209	1270	1331	1391	1452	1513	1573	1634
	3,8	882	946	1009	1073	1136	1200	1264	1327	1391	1454	1518	1581	1645	1708
	4	919	986	1052	1118	1185	1251	1318	1384	1450	1517	1583	1650	1716	1783
	4,2	957	1026	1095	1164	1233	1303	1372	1441	1510	1580	1649	1718	1787	1857
	4,4	994	1066	1138	1210	1282	1354	1426	1498	1570	1642	1715	1786	1859	1931

Price includes:

- aluminium box (250, 300, 350) in standard colour
- tube 70
- slats in standard colour
- guiding rails PP 89 with side caps in standard colour
- bottom rail with rubber seals

ADDITIONAL CHARGES	
TYPE	PRICE (EUR)
Slats in colour with EXTRA CHARGE	+ 15,75 EUR/ m²
Slats in EXTRA colour R (1-side renolit veneer)	+ 47,50 EUR/ m²
Slats in EXTRA colour R (2-side renolit veneer)	+ 84,75 EUR / m²
Bottom rail LDG/D in RAL colour	page 43
Box in RAL colour	page 43
Guiding rails in RAL colour	page 43
Openwork (lightning) profile (raw aluminum with glazing) – weight 0,95 kg/lm	11,75 EUR/ lm
Security key-lock for NHK emergency crank-opening	26,25 EUR/ pc
Electric drive	page 46
Back side of box 350	13,75 EUR/ Im

10. ROLLING GRILLES

10.1. PRICE LIST OF ROLLING GRILLES MADE OF PROFILE PEK 52 IN ALUMINUM BOX

Box size (mm)	Rolling guide	Total height (m)	Total width (m), price per 1m² in EUR			
			1,00-1,50	1,51-2,00	2,01-2,50	2,51-3,00
205	PP66	1,00 - 1,50	235	209	194	183
		1,51 - 2,00	203	185	175	168
		2,01 - 2,50	185	173	166	161
250	PP75	2,51 - 3,00	173	165	160	157
		3,01 - 3,50	173	165	161	158
		3,51 - 4,00	166	160	157	-
		4,01 - 4,50	111	155	-	-
300		4,51 - 5,00	156	154	-	-

Price include:

- aluminium box in standard colours
- tube 70
- unvarnished profiles PEK 80
- guiding rails PP 89 with plug holes in standard colours
- bottom rails with rubber seal
- inertial brake
- central control device CRS-435 XG photo unit with

10.2. PRICE LIST OF ROLLING GRILLES MADE OF PROFILE PEK 80 IN ALUMINUM BOX

Box size (mm)	Total height (m)	Total width (m), price per 1m² in EUR						
		1,50-2,00	2,01-2,50	2,51-3,00	3,01-3,50	3,51-4,00	4,01-4,50	4,51-5,00
250	1,5 - 2,00	317	288	269	255	245	238	232
300	2,01 - 2,50	290	264	248	237	229	223	218
300	2,51 - 3,00	268	245	231	222	215	210	205
350	3,01 - 4,50	272	249	233	223	216	210	205

Price include:

- aluminium box in standard colours
- tube 70
- unvarnished profiles PEK 80
- guiding rails PP 89 with plug holes in standard colours
- bottom rails with rubber seal
- inertial brake
- central control device CRS-435 XG photo unit with

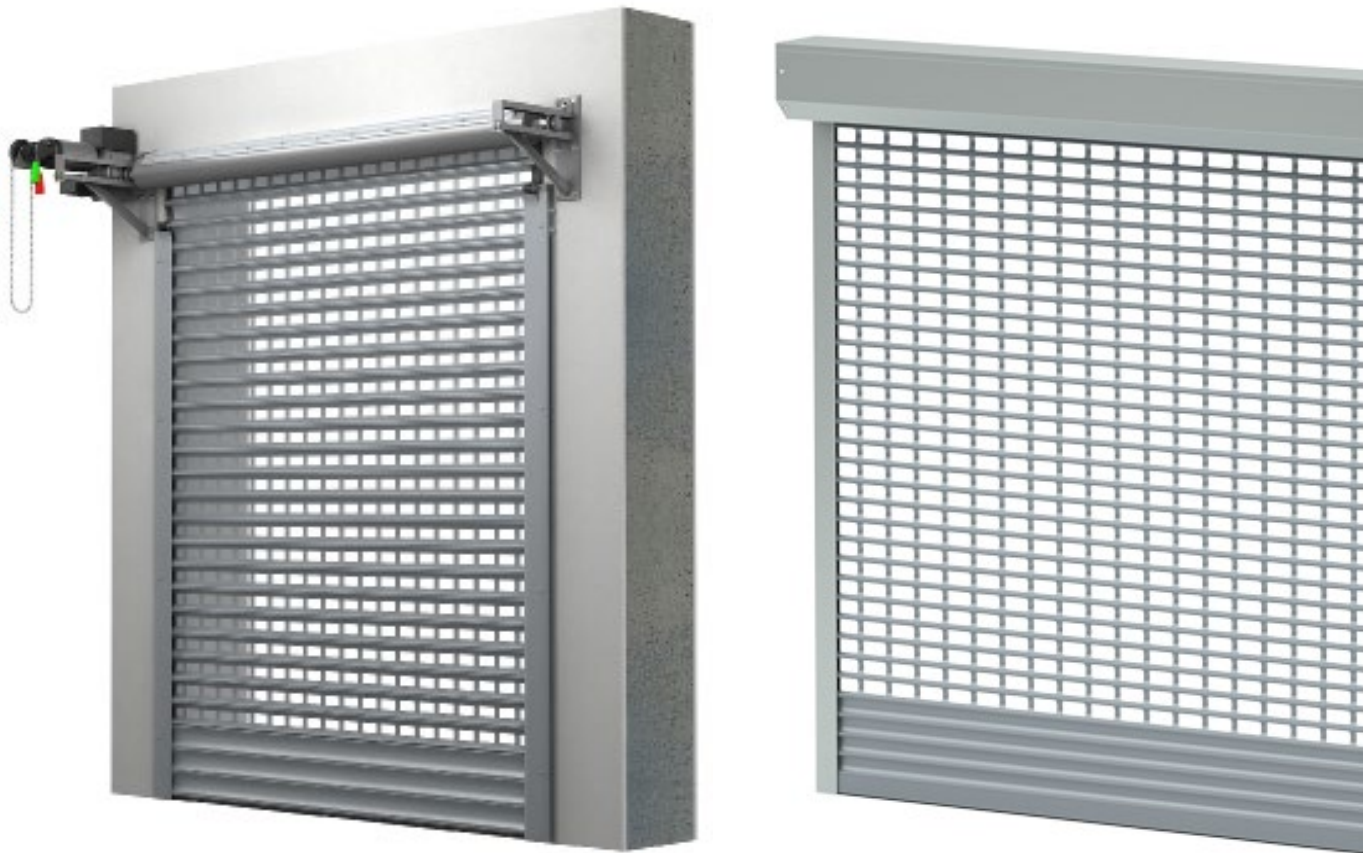
10.3. PRICE LIST OF ROLLING GRILLES MADE OF PROFILE PEK 80 IN MOBILE-CONSOLE

Total height (m)	Total width (m), price per 1 m² in UE						
	1,50-2,00	2,01-2,50	2,51-3,00	3,01-3,50	3,51-4,00	4,01-4,50	4,51-5,00
1,5 - 2,00	343	303	277	259	245	235	208
2,01 - 2,50	310	276	255	240	230	221	199
2,51 - 3,00	284	254	237	224	215	208	190
3,01 - 3,50	266	243	227	217	209	203	187
3,51 - 4,00	253	231	217	208	201	195	-
4,01 - 4,50	246	225	213	204	198	-	-
4,51 - 5,00	238	218	206	198	-	-	-

Price include:

- Mobile-console
- Tube 70
- Guiding rails PP89 with caps
- bottom rails with rubber seal
- Slats (GRILLE)
- inertial brake
- Central control device CRS-435 XG + Photocell + Two remote controls
- Slat`s pull-in protection (2 photocell under the box)

Rolling gates are commonly used as a protection for garage, in color matching the roller shutters in the building. Each gate can be operated manually, it's weight is alleviated by springs which are matched to the dimensions of the gates. Rolling gates are made from high quality profiles filled with polyurethane foam. Profiles provide good thermal insulation and help in reducing the costs of heating in the building. Openwork profiles made from raw aluminum with glazing are still popular.



11. ELECTRIC DRIVES

IMPORTANT INFORMATIONS

To choose correct motor, area of roller shutter must be multiplied by weight of curtain's profile.
Extra 20% must be added as a reserve (50% in case of combination) to include curtain's resistance.

Producer	Name / Type	Minimal width of roller shutter (cm)	Lift capacity (kg)			Price EUR/piece
			height of roller shutter			
			up to 1,5 m	up to 2,5 m	up to 3,0 m	
tube Ø 40 - mechanical limiters						
Vertex	VS 8/10	63	20	18	17	43,75
Vertex	VS 8/10 short	50	20	18	17	65,75
Somfy	LS 40 Aries 4/14	57	12	10	-	109,50
Somfy	LS 40 Aries S 4/14	53	12	10	-	125,00
Somfy	LS 40 Mars 9/14	57	24	20	-	120,50
Somfy	LS 40 Vulcan 13/8	58	39	32	-	133,75
tube Ø 40 - electronic limiters, obstacle detection						
Vertex	VS 8/10 P*	63	20	18	17	78,75
Vertex	VS 8/10 E*	63	20	18	17	82,50
Somfy	Ilmo 40WT 4/14*	58	12	10	-	133,50
Somfy	Ilmo 40WT 9/14*	62	26	22	-	155,00
Somfy	Ilmo 40WT 13/8*	62	39	32	-	163,25
tube Ø 40 - built-in radio receiver, mechalical limiters						
Vertex	VS 8/10 R	68	20	18	17	72,50
Vertex	VS 8/10 R short	50	20	18	17	103,75
tube Ø 40 - built-in radio receiver, electronic limiters						
Vertex	VS 8/10 R	63	20	18	17	82,50
Vertex	VS 8/10 RE*	63	20	18	17	85,00
Somfy	OXIMO 40 io 4/16*	60	12	10	-	187,00
Somfy	OXIMO 40 io 9/16*	60	26	22	-	202,50
Silnik OXIMO 40 Wirefree RTS 10 Nm/12						
Somfy	OXIMO 40 Wirefree RTS	60	26	22	-	552,50
tube Ø 60-70 - mechanical limiters						
Vertex	VS 9/20	60	40	35	32	41,25
Vertex	VS 9/40	70	70	66	64	61,75
Simu	JOB 5S 8	65	15	12	11	70,00
Simu	JOB 5S 10	66	25	21	18	77,00
Simu	JOB 5S 15	66	37	32	27	84,00
Somfy	Ariane 6/17	65	15	12	11	123,00
Somfy	Jet 10/17	70	25	21	18	137,50
Somfy	Atlas 15/17	67	37	32	27	142,25
Somfy	Meteor 20/17	70	50	43	37	151,25
Somfy	Gemini 25/17	75	63	53	46	163,75
Somfy	Helios 30/17	75	75	64	55	178,25
Somfy	Mariner 40/17	80	100	85	74	201,50
Somfy	Vectran 50/12	80	118	96	84	205,75

* hangers Lock to Play included in price.

Producer	Name / Type	Minimal width of roller shutter (cm)	Lift capacity (kg)			Price EUR/piece
			height of roller shutter			
			up to 1,5 m	up to 2,5 m	up to 3,0 m	
Vertex	VS 9/50 NHK	75	82	75	70	69,00
Somfy	Jet 10/17 NHK	70	25	21	18	153,75
Somfy	Meteor 20/17NHK	75	50	43	37	178,50
Somfy	Gemini 25/17NHK	75	63	53	46	186,25
Somfy	Mariner 40/17NHK	83	100	85	74	216,00
Somfy	Vectran 50/12 NHK	75	118	96	84	217,75

tube Ø 60-70 electronic limiters, with overload protection

Vertex	VS 9/20 E*	56	42	38	36	83,75
Vertex	VS 9/20 E*	60	42	38	36	90,75
Somfy	Ilmo 50 WT 6/17 *	65	15	12	11	134,25
Somfy	Ilmo 50 SWT 6/17 short*	50	15	12	11	175,75
Somfy	Ilmo 50 WT 10/17 *	65	25	21	18	153,50
Somfy	Ilmo 50 WT 15/17 *	65	37	32	27	162,25
Somfy	Ilmo WT 20/17 *	76	50	43	37	182,25
Selve	Sel Plus 2/7	60	19	15	12	123,25
Selve	Sel Plus 2/10	60	25	20	15	125,50
Selve	Sel Plus 2/15	62	35	29	24	130,00
Selve	Sel Plus 2/20	64	45	37	30	154,00
Selve	SES 2/10*	60	25	20	15	127,50
Selve	SES 2/20*	64	45	37	30	137,50
Simu	T5 Autojob 6*	65	15	12	11	113,00
Simu	T5 Autojob 10*	65	25	21	18	130,00
Simu	T5 Autojob 15*	65	37	32	27	144,25

tube Ø 60-70 - built-in radio receiver, mechalical limiters

Vertex	VS 9/20 R	60	42	38	36	72,50
Vertex	VS 9/40 R	80	70	66	64	90,00

tube Ø 60-70 - built-in radio receiver, NHK, mechalical limiters

Vertex	VS 9/50 NHK R	90	82	77	74	112,50
Somfy	Jet NHK RTS 10/17	90	25	21	17	222,75
Somfy	Meteor NHK RTS 20/17	95	50	43	33	253,50
Somfy	Apollo NHK RTS 20/17	95	75	64	55	260,00
Somfy	Mariner NHK RTS 40/12	95	100	85	74	266,50
Somfy	Vectran NHK RTS 50/12	95	118	96	84	284,75

* hangers Lock to Play included in price

Producer	Name/Type	Minimal width of roller shutter (cm)	Lift capacity (kg)			Price EUR/piece
			height of roller shutter			
			up to 1,5 m	up to 2,5 m	up to 3,0 m	

Tube fi 60-70 – built-in radio receiver, electronical limiters, overload and obstacle detection

Vertex	VS 9/20 RP*	60	42	38	36	87,50
Vertex	VS 9/20 RE*	60	42	38	36	96,25
Somfy	Oximo S Auto RTS 6/17 *	50	15	12	11	198,75
Somfy	Oximo RTS 6/17 *	75	15	12	11	173,50
Somfy	Oximo RTS 10/17 *	80	25	21	18	193,25
Somfy	Oximo RTS 15/17 *	80	37	32	27	209,25
Somfy	Oximo RTS 20/17 *	85	50	43	37	227,25
Selve	Sel Plus RC 7 Nm	60	19	15	12	153,50
Selve	Sel Plus RC 10 Nm	60	25	20	15	160,00
Selve	Sel Plus RC 20 Nm	64	45	37	30	175,00
Selve	SES R 10 Nm	60	25	20	15	161,25
Selve	SES R 20 Nm	64	45	37	30	168,00
Simu	T5 Auto Short Hz 6/17*	50	15	12	11	220,50
Simu	T5 E Hz-8/17*	72	20	15	13	166,75
Simu	T5 E Hz-10/17*	72	25	21	18	175,00
Simu	T5 E Hz-15/17*	72	29	26	24	186,75
Simu	T5 E Hz-20/17*	80	39	34	31	201,00

Tube fi 70 – mechanical limiters

Vertex	VS 11/100	90	120	115	110	151,25
Somfy	Vega 60/12	75	135	117	109	192,25
Somfy	Sirius 80/12	75	180	157	147	214,25
Somfy	Titan 100/12	80	213	185	182	262,00
Somfy	Taurus 120/12	80	270	234	218	319,00

Tube fi 70 – mechanical limiters, NHK

Vertex	VS 11/100 NHK	90	120	115	110	162,50
Vertex	VS 10/140 NHK	100	-	140	130	196,00
Somfy	Vega 60/12 NHK	80	135	117	109	240,25
Somfy	Sirius 80/12 NHK	80	180	157	147	261,00
Somfy	Titan 100/12 NHK	80	213	185	182	287,50
Somfy	Taurus 120/12 NHK	80	270	234	218	341,25

*hangers Lock to Play included in price.

Producer	Name / Type	Minimal width of roller shutter (cm)	Lift capacity (kg)			Price EUR/piece
			height of roller shutter			
			up to 1,5m	up to 2,5m	up to 3,0m	

tube Ø 60-70 - built-in radio receiver, electronic limiters, obstacle detection

Somfy	Oximo S Auto RTS 6/17 *	50	15	12	11	198,75
Somfy	Oximo RTS 6/17 *	75	15	12	11	173,50
Somfy	Oximo RTS 10/17 *	80	25	21	18	193,25
Somfy	Oximo RTS 15/17 *	80	37	32	27	209,25

Motors RS 100

Somfy	RS 100 io 6 Nm*	67	15	12	11	229,25
Somfy	RS 100 io 10 Nm*	80	25	21	18	246,75
Somfy	RS 100 io 15 Nm*	80	37	32	27	259,50
Somfy	RS 100 io 20 Nm*	85	50	43	37	272,75
Somfy	RS 100 io WT 6 Nm*	67	15	12	11	235,75
Somfy	RS 100 io WT 10 Nm*	80	25	21	18	253,50
Somfy	RS 100 io WT 15 Nm*	80	37	32	27	268,53
Somfy	RS 100 io WT 20 Nm*	85	50	43	37	282,00

IO		EUR/pc.
TaHoma	Individual central device with internet connection	330,00
TaHoma Premium Base	Safety base with alarm siren	287,50
Connexoon box	1 application to choose	156,25
Connexoon box	2 applications to choose – window and terrace	178,25
Instalacja	Installation - Program service TaHoma - price exclude homestretch	100,00
Set&Go	Tool for installation IO-device by using PC	222,00
Smoove Origin io	Wall remote in form of switch – white with frame	39,50
Smoove 1 io	1-channel wall remote in form of switch – grey/black/silver	47,00
Smoove 1 A/M io	1-channel wall remote in form of switch – grey/black/silver. Auto/manual switch	53,00
Frames for Smoove	Frames for wall remotes in silver/silver matt/black	2,75
Situo 1 io Pure	1-channel remote white	39,50
Situo 1 io Kolor	1-channel remote – grey/green/orange	54,00
Situo 5 io Pure	5-channel remote white	62,00
Situo 5 io Kolor	5-channel remote – grey/green/orange	84,50
NiNa Timer	Remote – individual and group control with time automatical technology	211,45
Repiter io	Signal amplifier	249,25
Thermis Wirefree io	Temperature sensor for TaHoma	104,50
TaHoma EnOcean Module	Interface for EnOcean devices	90,50
Internal camera	Rotating HD camera – VISIDOM ICM 100	268,50
External camera	Camera VISIDOM OC 100	279,25
Safety remote	Remote for TaHoma alarm	48,50
Internal motion detection	Motion sensor for TaHoma	85,50
Opening sensor	Opening sensor for TaHoma	81,75
Smoke sensor	Smoke sensor	96,00



Set&Go



TaHoma Premium Base



TaHoma



Situo 1 io Pure



Situo 5 io Pure



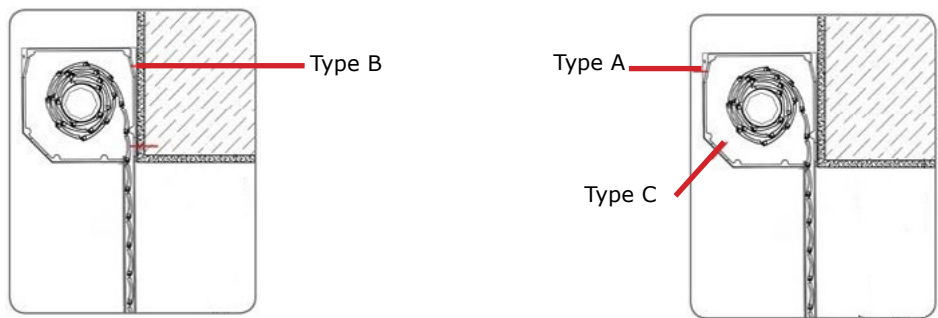
NiNa Timer



Smoove



ADDITIONAL CHARGES	
TYPE	PRICE (EUR/pc)
Crank with hook 150 cm	8,00
Crank with hook 180 cm	9,00
Axis 180 mm	11,00
Axis 460 mm	14,00
Cardan joint with handle 45° – hexagonal	10,25
Cardan joint with handle 90° - hexagonal	17,25
Axis extension 500 mm for NHK motor	3,50
Axis joint for NHK motor	2,75
Inertial brake	144
Cardan joint - hexagonal	11,75



Type A - Cardan joint 90°
 Type B - Cardan joint 90°
 Type C - Cardan joint 45°

Motor with mechanical limiter – final position of motor (top and bottom position of roller shutter) need to be placed by winder or button on motor. To regulate the motor it need to be open revision cap to get the head of motor.

Motor with electronical limiter, overload and obstacle detection – final position (top and bottom position of roller shutter) need to be placed by the mounting cable. It is not necessary to open revision cap. Exception is motor Somfy Ilmo WT which do not need to set the limiters. This type of motor has additional function that it stops the functioning when it hit on resistance during working of roller shutter.

Motor with emergency opening – this type of motor has additional gear mechanism which gives extra possibility to open the roller shutter by crank in case of break in power.

Motor with radio receiver – this type of motor has built-in radio receiver. It gives possibility to operate by the remote control. It has also all options as all above motors with mechanical and electronical limiters and emergency opening. Limiters in motors with electronical limiters and radio receiver need to be set by remote controls instead of mounting cable.

ACCESSORIES FOR ELECTRIC DRIVES		
Controllers for garage gates VS		
Central ucit 435XG	To control one gate. It can work with remote controls, switches and photocells.	63,50
Central unit 436XG	To control one or two gates. It can work with remote controls, switches and photocell.	93,25
Receiver ORS X2T	Radio receiver to connect central units of other manufacturers for instance: sliding or sectional gates Works with remote controls	59,75
2- channel remote control PIL 02X	2- channel remote control in the shape of pendant for central units CRS and ORS	16,50
4- channel remote control PIL 04X	4- channel remote control in the shape of pendant for central units CRS and ORS	19,25
Photocell FOT 01	Optical barrier cooperating with CRS435 i CRS436	38,50
Controllers for garage gates Somfy		
Central unit Axroll RTS	to control one gate. It can work with remote controls, switches and photocell.	81,25
Photoelectric cell FOTODITY	Optical barrier cooperating with the central unit Axroll	43,75
Remote control Keytis 2NS 2-channel	2- channel remote control in the shape of pendant for central unit Axroll	13,75
Remote control Keytis 4NS 4-channel	4- channel remote control in the shape of pendant for central units Axroll	23,25
Remote control Keygo 4-channel	4- channel remote control in the shape of pendant for central units	26,00
Central ROLLIXO io	To control one gate. It can work with remote controls, switches and photocells. Set with 2 remote controls Keygo IO.	220,50
Individual controls Somfy for roller shutters		
Switch Inis Uno Z/P	Switch for blinds which does not require holding the switch during lifting and lowering blinds.	12,00
Switch Inis Uno B/P	Switch for blinds which require holding the switch during lifting and lowering blinds.	12,25
Switch Inis Duo Z/P	Switch for two blinds which does not require holding the switch during lifting and lowering blinds.	17,25
Switch Inis Duo B/P	Switch for two blinds which require holding the switch during lifting and lowering blinds.	17,25
Chronis Uno Smart	Switch with time programming for one roller shutter	78,00
Chronis Uno L	Switch with time programming for one roller shutter with possibility to connect sun sensor	89,50
Frame Inteo	On-wall frame to be used with switches Uno i Duo.	4,50

PRICELIST OF DRIVE`S CONTROLS		
Central cable controls, serie IB Somfy		
Centralis Uno IB	Individual switch cooperating with central switches	68,50
Centralis IB	Central switch	21,25
Radio control RTS - on-wall transmitters RTS, serie Somfy		
Smooove Origin RTS	On-wall remote - white	34,50
Smooove RTS	On-wall remote without frame in gray, black and silver colour	41,00
Frame for Smooove	Frames for on-wall remotes in matt silver, silver and black colour	2,75
Chronis RTS Smart	1-channel on-wall transmitter with time programming	78,00
Chronis RTS L Comfort	1-channel on-wall transmitter with time programming with possibility to connect sun sensor	116,00

PRICELIST OF DRIVE'S CONTROLS

Remote controls RTS - serie Somfy - Price (EUR)/piece

Telis 1 Pure RTS	1 - channel remote control white - silver	32,25
Telis 1 Silver RTS	1 - channel remote control silver	44,50
Telis 4 Pure RTS	5 - channel remote control white - grey	57,75
Telis 4 Silver RTS	5 - channel remote control silver	66,50
Telis 16 RTS Pure	16- channel remote control with screen. White.	136,00
Telis 16 RTS Silver	16- channel remote control with screen. Silver	148,75
Telis 6 Chronis RTS Pure	6-channel remote control with time programming - white	171,75
Telis 6 Chronis RTS Silver	6-channel remote control with time programming - silver	190,25

Additional device serii RTS

Sun sensor	Roller shutter opens and closes depending on the intensity of light. Dedicated To switch Chronis L Comfort.	31,25
Centralis Uno RTS	Switch dedicated to a single blinds with radio receiver - with the ability to support any RTS remote control.	84,75
Centralis Platine RTS	Radio receiver for mounting in the roller shutter box	85,50
Sunis Indor Wire Free	Easy to install wireless sun sensor.	103,00
Termo Sunis Indor RTS Wire Free	Radio temperature sensor - see page 45	127,50
Lighting Indor RTS	Receiver for control of lighting - see page 45	74,50
Shutter in-wall RTS receiver	Underplaster radio receiver dedicated to operate drives. With possibility to connect a switch.	101,00
Lighting in-wall RTS receiver	Underplaster radio receiver dedicated to control lighting With possibility to connect a switch.	101,00
Emergency power supply	Emergency power supply OXIMO WIRE FREE RTS	

Transmitters for central wire systems

Transmitter R1-JUE-230	Dedicated to operate one drive and setting up central control	36,75
Transmitter TR2-U-E-230	Dedicated to operate two drives and setting up central control	50,00
Multipoint transmitter MR2	Dedicated to operate one drive with multiple switches	29,75
Cover for MR2	On-wall cover for transmitter MR2	6,75



Telis 6 Chronis RTS



Telis 16 RTS



Telis 1 Silver RTS



Situio 1 RTS

PRICELIST OF DRIVE'S CONTROLS

Remote controls / transmitters / radio receivers, serie VS - Price (EUR)/ piece

Pil 01 PT	Underplaster remote control - cooperate with any no-support switch	22,00
Pil 01 NS	1 - channel on-wall remote control white, anthracite, silver, gray	26,75
Pil 04 NS	4- channel on-wall remote control white, anthracite, silver	32,25
Pil 01 HT	1- channel remote control with pendant	12,00
Pil 01 PM	1- channel remote control with pendant	22,00
Pil 05 HT	5 - channel remote control with pendant	22,00
Pil 05 PM	5 - channel remote control with pendant	32,25
Pil 09 HT	9 - channel remote control with pendant	30,25
Pil 09 PM	9 - channel remote control with pendant	37,75
Pil 19 PM	19 - channel remote control with pendant	43,25
Pil 19 PMT	19 - channel remote control with pendant and time programmer	65,25
Pil 99 PMT	99 - channel remote control with pendant and time programmer	76,25
Pil 99 G	99 - channel remote control with pendant and channel description option	54,25
PIL 99 GP	99 - channel remote control with pendant and time programmer	76,25
INEL net 01	The control panel for controlling roller shutters on the Internet	378,25
ST01R	Radio receiver for cans with the possibility of connecting the switch.	33,00
ST01RL	Radio receiver for side of shutter	33,00
ST01RS	Radio receiver for lighting with the possibility of connecting the switch.	33,00



On-wall remote control in 1 or 4-channel version



1/5 - channel remote control



9-channel remote control



Remotes/Transmitters/Radio receivers SELVE

COMMEO WALL SEND 1 K	Wall remote 1-channel white	65,25
COMMEO SEND 1 K	1-channel remote - white/black	58,00
COMMEO SEND 10 K	10-channel remote - white/black	75,00
COMMEO MULTI SEND 20 K	20-channel remote with time control - white/black	145,50
COMMEO RECEIVE	Radio receiver for mains plug	86,25



COMMEO SEND 1 K



COMMEO RECEIVE



COMMEO WALL SEND 1 K



COMMEO MULTI SEND 20 K

ROLLER SHUTTER`S SWITCHES		
Type	Features	Price (EUR)
Key switches in metal cover		
Momentary	- impulsive - for central controls and MR2 - on-plaster and underplaster	30,25
3-way	- with and without support 2-polar - on-plaster and underplaster	30,25
Rotating switches		
Rotating switch	- with and without support - underplaster - for central controls and MR2	9,00
On-wall adapter	for on-plaster installation of switches	2,25
Button switches		
2-way button switch	- with support - underplaster	9,00
1-way button switch	- without support - underplaster - for transmitter	7,50
Bell-type switch	- impulsive - for central controls and MR2	7,75
On-plaster adapter	for on-plaster installation of switches	2,00
Hermetic button-switches		
2-way mechanism	- with support - on-wall	8,50
1-way mechanism	- without support - on-wall - for central controls and MR2	8,00



Key switch



rotating switch



button switch

12.Components				
Complete aluminum box (box, side caps, tube, cap, bearings) (EUR)/lm				
Box	Standard		PUTZ / SPE (raw sidecap)	HALF-ROUND/ QUARTER-ROUND
	Standard colour	Wood-imitation colour (side cap in RAL*)		
137	29,50	31,75	48,50	40,75
150	33,25	-	51,25	-
165	34,00	37,50	55,50	47,50
180	37,00	42,00	59,75	49,75
205	49,50	54,75	89,50	62,25
SLATS (bottom rail included in price)				
Type			Price (EUR) /m²	
V 39			36,00	
V 39 extra colour			43,50	
V 43			42,00	
V 43 extra colour			51,50	
PE 41			143,00	
PA 52			56,75	
PA 52 extra colour			66,25	
PE 55			192,00	
V 55			60,50	
V 55 extra colour			71,75	
V 77			76,75	
V 77 extra colour			53,28	
V 77 renolit R (1-sided veneer)			126,25	
V 77 renolit RD (2-sided veneer)			165	
GUIDING RAILS (standard colour)				
Type			Price (EUR)/lm	
PU 29			6,00	
PP 45			8,75	
PP 53			7,00	
A 20			10,75	
PPD 79			12,50	
PP 53 ODS			9,50	
PP 68			13,00	
PK 53			11,00	
PP 66			15,00	
PP 75			15,00	
PP 89			27,25	
PPW 66			23,25	
PPD 60/12 (Opoterm)			5,75	
PG 02 / PG 08 (Cleverbox)			5,50	
SR 60 (Vegas Revo)			5,75	
PPW 90			38,00	
GUIDING RAIL`S CAPS (standard colour)				
Aluminum mask for guiding rail.Dimensions: 18,5x82,2 mm(unvarnished, silver, white, grey, dark brown, brown			5,75	
Aluminum mask for guiding rail.Dimensions: 15x53 mm			4,25	
Aluminum distance for guiding rails – allows to make distance. Dimensions: 20x53mm (unvarnished, silver, white, grey, beige, dark brown, brown, grey anthracite, mahogany, walnut, golden oak)			4,75	

Complete top-mounted box (All roller shutter's systems) (box, side caps, tube, cap, bearings)	
Type	Price (EUR) /lm
Boxes 170, 165 complete	52,75
Boxes 205, 210 complete	62,25
Boxes 240, 245, 260 complete	79,00

13. PRICE LIST OF PAINTING ELEMENTS

Painting elements to any RAL color	
Element	Price (EUR)/lm
STANDARD AND HALF-ROUND BOXES	
Box 137	10,00
Box 150	11,25
Box 165	12,50
Box 180	13,75
Box 205	15,00
Box 250	20,00
Box 300	22,50
Box 350	27,50
GUIDING RAILS	
PPDO, PP 66, PP 68, PU 29, PP 53, PK 53, PP 53/ODS , PGA, A 20	5,00
PP 75, PP 89, PP 110	7,50
BOTTOM RAIL	
LDG 40, LDG wide, LDG/S (V55), LDG/D (V77)	5,00
ELEMENTS FOR UNDERPLASTER ROLLER SHUTTERS	
Carrier plaster and service cover 138, 150, 165, 180, 205	5,00
PANCER	
1-side painting of extruded curtain - powder coated	16,25 EUR / m²
2-side painting of extruded curtain - powder coated	32,50 EUR / m²
1-side painting of curtain - wet varnishing	62,50 EUR/ m²
2-side painting of curtain - wet varnishing	125 EUR / m²
PVC elements painting	individual pricing

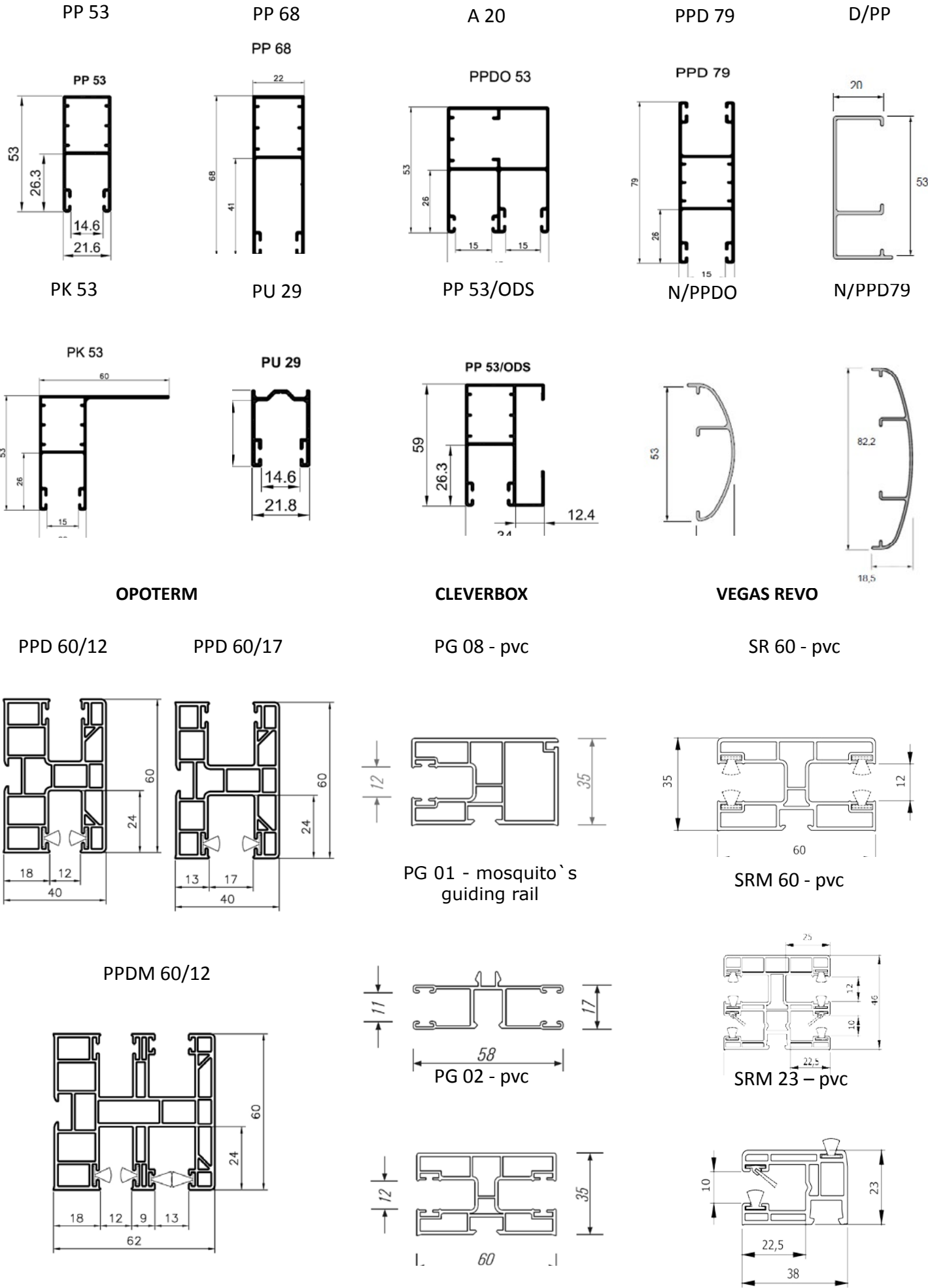
14. PRICE LIST OF MODIFICATIONS

Type of modification	Price (Eur/piece)	Note
Roller shutter narrowing	27,50	
Curtain narrowing	20,00	
Changing the control side	20,00	
Roller shutter extension	20,00	+ material cost
Changing the type of drive / exchange on new / entrused motor assembly	20,00	+ material cost
Mounting automatic bolts in the final roller shutter	32,50	+ material cost
Installation of key-lock	17,50	+ material cost
Installation of latches	10,00	
Sides exchange	20,00	+ material cost

15. GLITTER RAL COLOURS – EXTRA QUOTATION

No	Colour	No	Colour	No	Colour
1	RAL 1035	6	RAL 4011	11	RAL 6036
2	RAL 1036	7	RAL 4012	12	RAL 7048
3	RAL 2013	8	RAL 5025	13	RAL 8029
4	RAL 3032	9	RAL 5026	14	RAL 9022
5	RAL 3033	10	RAL 6035	15	RAL 9023

GUIDING RAILS





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