



Member of PISLA GROUP

Vertex S.A.
SUN PROTECTIONS

EXTERNAL PRODUCTS` PRICELIST



2018

MAXIMUM DIMENSIONS OF ROLLER SHUTTERS

Table defines the boundary dimensions of roller shutters made of PA 39 and PA 45 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.

[illegible]

TABLE OF CONTENTS

1. TECHNICAL SPECIFICATIONS OF ROLLER SHUTTERS	5
1.1. MAXIMAL WIDTHS OF ROLLER SHUTTERS	5
1.2. COLOURS OF COURTAINS AND BOTTOM RAILS	6
1.3. COLOURS OF BOXES AND GUIDING RAILS	7
1.4. TECHNICAL DATA OF PROFILES	8
2. STANDARD ROLLER SHUTTERS IN ALUMINIUM BOX	11
2.1. MAXIMAL HEIGHT OF ROLLER SHUTTERS	12
2.2. PRICE LIST OF STANDARD ROLLER SHUTTERS	13
2.3. PRICE LIST OF ROLLER SHUTTERS IN HALF-ROUND BOX	14
3. STANDARD ROLLER SHUTTERS IN ALUMINIUM BOX - UNDERPLASTER	15
3.1. MAXIMAL HEIGHT OF ROLLER SHUTTERS	16
3.2. PRICE LIST OF ROLLER SHUTTERS IN SPE BOX	17
3.3. PRICE LIST OF ROLLER SHUTTERS IN PUTZ BOX	18
4. ROLLER SHUTTERS IN PVC BOX - TOP-MOUNTED	19
4.1. MAXIMAL HEIGHT OF ROLLER SHUTTERS	21
4.2. PRICE LIST OF ROLLER SHUTTERS IN OPOTERM BOX	22
4.3. PRICE LIST OF ROLLER SHUTTERS IN VEGAS REVO BOX	23
4.4. PRICE LIST OF ROLLER SHUTTERS IN CLEVERBOX	24
4.5. PRICE LIST OF ROLLER SHUTTERS IN AK-FLEX	25
5. EXTRAS TO ROLLER SHUTTERS	26
6. ROLLER SHUTTERS IN LINTEL BOX – RKS	27
7. ROLLER SHUTTERS WITH PE 55 PROFILE WITH INCREASED BURGLARY-RESISTANCE	29
8. ROLLER SHUTTERS MADE OF PA 52 AND PA 55	30
9. ROLLER SHUTTERS - PROFILE PA 77 AND ROLLING GATES	34
10. ROLLING GRILLES	35
10.1. PRICE LIST OF ROLLING GRILLES MADE OF PROFILE PEK 52 IN ALUMINUM BOX	35
10.2. PRICE LIST OF ROLLING GRILLES MADE OF PROFILE PEK 80 IN ALUMINUM BOX	35
10.2. PRICE LIST OF ROLLING GRILLES MADE OF PROFILE PEK 80 IN MOBILE-CONSOLE	36
11. ELECTRIC DRIVES	37
12. PRICE LIST OF SEMI-FINISHED PRODUCTS FOR ROLLER SHUTTERS	47
13. PRICE LIST OF PAINTING ELEMENTS	48
14. PRICE LIST OF MODIFICATIONS	48
15. COLOURS RAL - BROCADE	48

Resistance grade for wind load according to PN-EN13659

Land categories:

- I – Open rough sea, lakes of at least 5km 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
1	< 4600	< 3800	< 3000
2	< 3800	< 3500	< 2500
3	< 3200	< 3100	< 1800
4	< 2700	< 2700	-
5	< 2300	< 2300	-
6	< 2000	< 1900	-

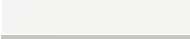
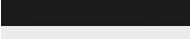
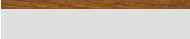
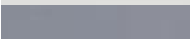
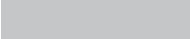
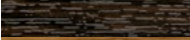
Maximal widths of roller shutters with profile PA 55

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*	Curtains				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**	-	-

+ Color in standard

L Requires painting, extra charge (Term of realisation is about 10 working days.) - page 48.

LM Equires wet painting (Term of realisation is about 10 working days.) - extra charge page 48.

D Extra colours, extra charge.

* Colors 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.

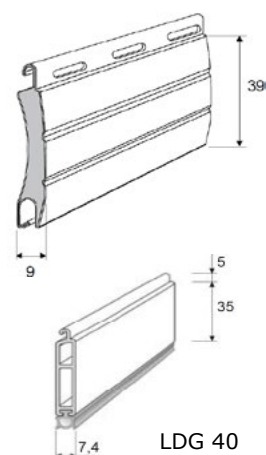
D, D1, D2 extra colours with an additional charge.

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

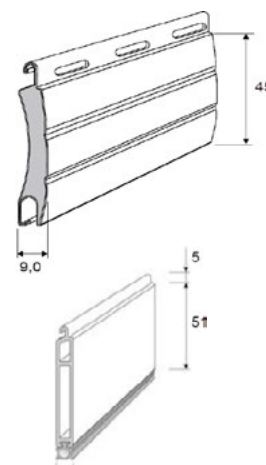
RENOLIT VENEER COATING FOR BOXES AND GUIDING RAILS OF TOP-MOUNTED SHUTTERS	
Area	Extra charge
up till 10 m ²	individual pricing
10-20 m ²	3 x percent surcharge D
above 20 m ²	2 x percent surcharge D

1.4. TECHNICAL DATA OF PROFILES

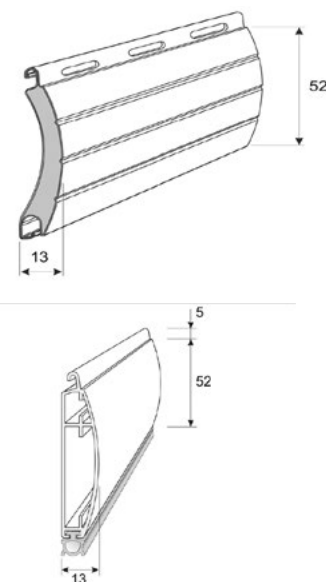
SLATS MADE OF PA 39 PROFILE	Technical data	Guiding rails		
		PP 45	PP 53	PP 68
	height of profile	39 mm	39 mm	39 mm
	thickness of profile	9 mm	9 mm	9 mm
	quantity of slats per 1 m height	25 pcs	25 pcs	25 pcs
	weight for 1 m ²	3 kg	3 kg	3 kg
	maximal width of roller shutter	2700 mm	3200 mm	3900 mm
	maximal area of roller shutter	6 m ²	6 m ²	6 m ²
	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 m ²	3 kg	3 kg	3 kg
	maximal width of roller shutter	2600 mm	3100 mm	3700 mm
	maximal area of roller shutter	6,5 m ²	6,5 m ²	6,5 m ²
	width of guiding rail	45 mm	53 mm	68 mm



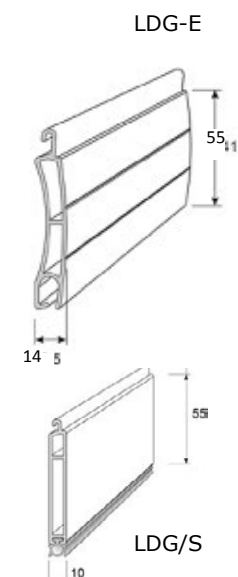
SLATS MADE OF PA 52 PROFILE	Technical data	Shutters		Gates	
		PP 66/ PP 75	PPD 60/17	PP 66	PP 75
	height of profile	52 mm	52 mm	52 mm	52 mm
	thickness of profile	13 mm	13 mm	13 mm	13 mm
	quantity of slats per 1 m height	19 pcs	19 pcs	19 pcs	19 pcs
	weight for 1m ²	3 kg	3 kg	3 kg	3 kg
	maximal width of roller shutter	4600 mm	3800 mm	3000 mm	3000 mm
	maximal area of roller shutter	8 m ²	8 m ²	8 m ²	8 m ²
	width of guiding rail	66 mm	75 mm	66 mm	75 mm



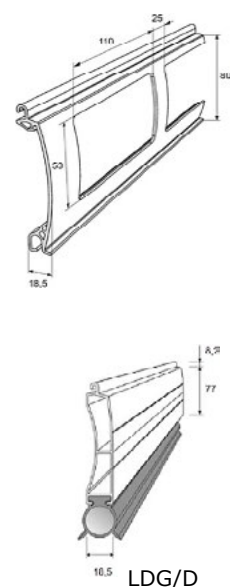
Note

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

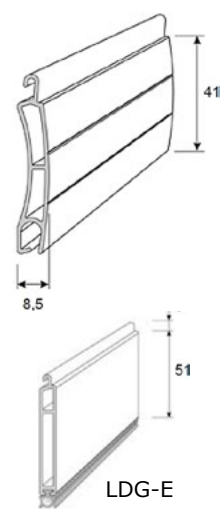
	Technical data	Shutters		Gates	
		PP 66	PP 75	PP 66	PP 75
SLATS MADE OF PA 55 PROFILE	height of profile	55 mm	55 mm	55 mm	55 mm
	thickness of profile	14 mm	14 mm	14 mm	14 mm
	quantity of slats per 1 m height	18 pcs	18 pcs	18 pcs	18 pcs
	weight for 1 m ²	3,5 kg	3,5 kg	3,5 kg	3,5 kg
	maximal width of roller shutter	4800 mm	4800 mm	3000 mm	3000 mm
	maximal area of roller shutter	9,5 m ²	9,5 m ²	9,5 m ²	9,5 m ²
	width of guiding rail	66 mm	75 mm	66 mm	75 mm



	Technical data	Guiding rail	
		PP 89	PP 110
SLATS MADE OF PEK 77 PROFILE	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 m ²	4,8 kg	4,8 kg
	maximal width of roller shutter	4500 mm	6000 mm
	maximal area of roller shutter	15 m ²	15 m ²
	width of guiding rail	89 mm	110 mm



	Technical data	Guiding rail			
		PP 53	PP 68	PPW 66	PPW 66 strengthened
SLATS MADE OF PE 41 EXTRUDED	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 m ²	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 m ²	8,5 m ²	8,5 m ²	8,5 m ²
	width of guiding rail	53 mm	68 mm	66 mm	66 mm

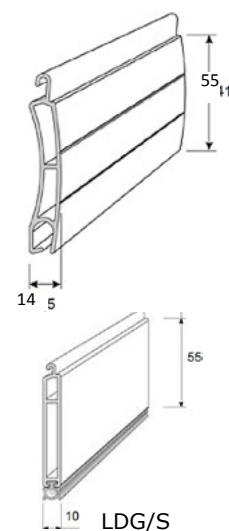


Note

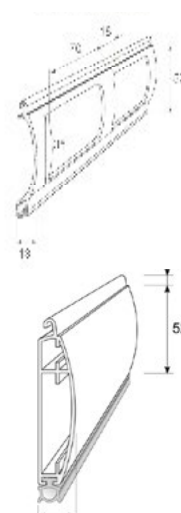
On request, we offer rolling grilles made from profile PEK 80 and roller shutters made from profile PE100 - individual pricing.

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	

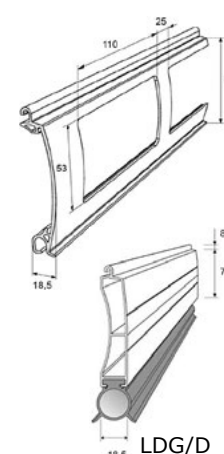
* Bottom slat LDG 55/W



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	



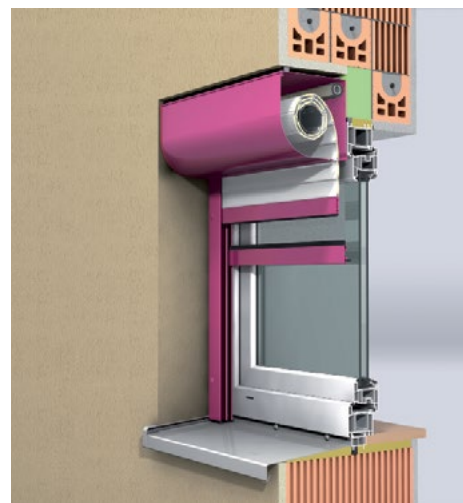
2. STANDARD ROLLER SHUTTERS IN ALUMINIUM BOX



standard box

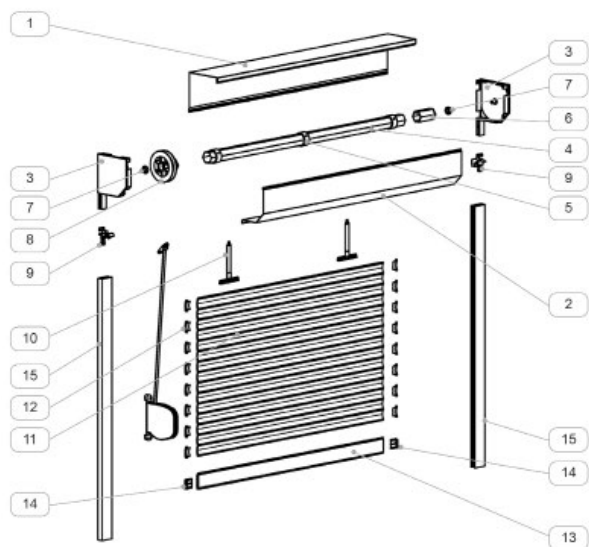


half-round box



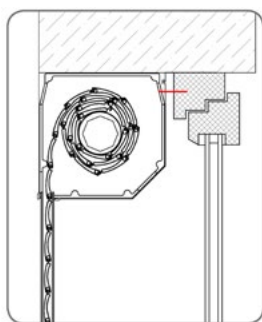
quarter-round box

CONSTRUCTION OF ROLLER SHUTTER



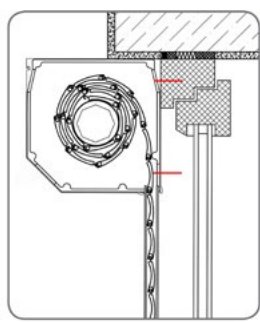
- 1 - SHUTTER BOX – TOP
- 2 - SHUTTER BOX – BOTTOM
- 3 - SIDE CAP
- 4 - STEEL TUBE Ø40mm OR Ø60mm
- 5 - ADAPTING RING
- 6 - CAP
- 7 - BEARING
- 8 - PULLEY
- 9 - ENTRY GUIDE
- 10 - CURTAIN'S HANGER
- 11 - CURTAIN
- 12 - PROFILE'S SIDE LOCK
- 13 - BOTTOM RAIL
- 14 - BOTTOM RAIL'S SIDE LOCK
- 15 - GUIDING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

MOUNTING OPTIONS



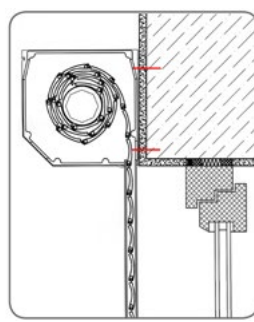
Type „A“

Roller shutter mounted in a window niche (clockwise).



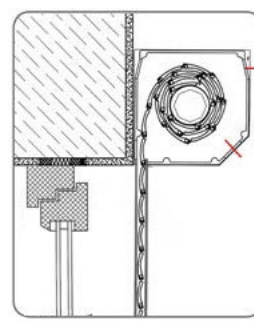
Type „B“

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

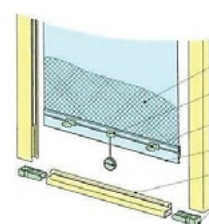
PW - with blockade hangers

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

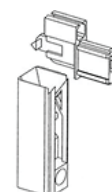
PW - with blockade hangers



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	57,75
Profile PA 45	66,25
Profile PE 41	140,75
Profile PE 41 with WK2*	203

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	+ 8,25 EUR / m ²
Slats PA 43 in extra colour	+ 10,25 EUR /m ²
Box in colour: golden oak, walnut, mahogany	+ 9%
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%
Side caps in wood imitation structural paint (golden oak, walnut, mahogany)	+ 19 EUR /set
Box' height increasing for each following size	+ 5%
Roller shutters' combination with one common drive	+ 21 EUR /pc
Guiding rail PP 45 in standard colour	+ 2,25 EUR / lm
Guiding rail PP 68 in standard colour	+ 6,50 EUR /lm
Angular guiding rail PK 53 in standard colour	+ 6,75 EUR /lm
Guiding rail 12 mm PP53/ODS in standard colour	+ 6,25 EUR /lm
Distance 20 mm D/PP for PP 53 guiding rail	+ 6 EUR /lm
Strengthened guiding rail PPW 66	+ 17,50 EUR /lm
Hook-lock mosquito-net (price of 1 m ²)	+ 39,75 EUR /m ²
Click-lock mosquito-net (price of 1 m ²)	+ 46,75 EUR / m ²
Independent division of Easy Click anti-mosquito net	+ 13 EUR/pcs

* except glitter colors

DRIVE`S OPTIONS	
Manual tape/rope winder	included in price
Spring-drive	23,25 EUR / set
Crank winder	22 EUR /set
ACE crank-mechanism + crank with Cardan joint	75,50 EUR/ set
Electric drive	page 37-46

ADDITIONAL SECURITY OPTIONS	
Manual bolt	4 EUR / set
Automatic bolt	17,75 EUR / set
Key-lock + handle	35,50 EUR / set
Blockade hanger	5,25 EUR / pc
PW hanger	9,75 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 m ² (EUR)
Profil PA 39	63,50
Profil PA 45	72
Profil PE 41	146,50
Profil PE 41 z WK2*	208,75

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	+ 8,25 EUR/m ²
Slats PA 43 in extra colour	+ 10,25 EUR/m ²
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	+ 21 EUR /pc
Guiding rail PP 45 in standard colour	+ 2,25 EUR /lm
Guiding rail PP 68 in standard colour	+ 6,50 EUR /lm
Angular guiding rail PK 53 in standard colour	+ 4,75 EUR/lm
Guiding rail 12 mm PP53/ODS in standard colour	+ 6,25 EUR / lm
Distance 20 mm D/PP for PP 53 guiding rail	+ 6 EUR /lm
Strengthened guiding rail PPW 66	+ 17,50 EUR /lm
Hook-lock mosquito-net (price of 1 m ²)	+ 39,75 EUR /m ²
Click-lock mosquito-net (price of 1 m ²)	+ 46,75 EUR /m ²
Independent division of Easy Click anti-mosquito net	+ 13 EUR/pcs

* except glitter colors

DRIVE`S OPTIONS		ADDITIONAL SECURITY OPTIONS	
Manual tape/rope winder	included in price	Manual bolt	4 EUR /set
Spring-drive	23,25 EUR / set	Automatic bolt	17,75 EUR / set
Crank winder	22 EUR /set	Key-lock + handle	35,50 EUR /set
ACE crank-mechanism + crank with Cardan joint	75,50 EUR/ set	Blockade hanger	5,25 EUR /pc
Electric drive	page 37-46	PW hanger	9,75 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

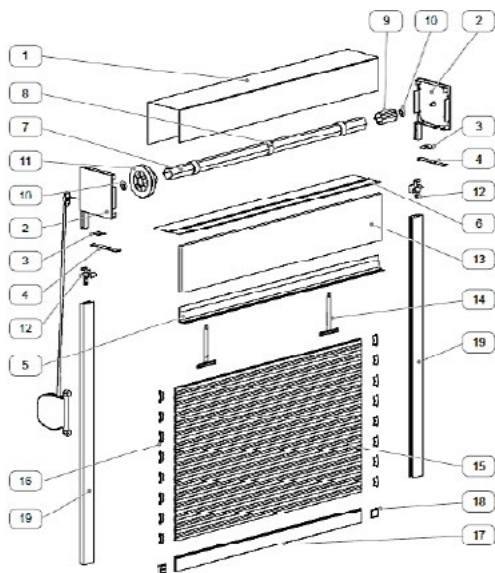


BOX PUTZ



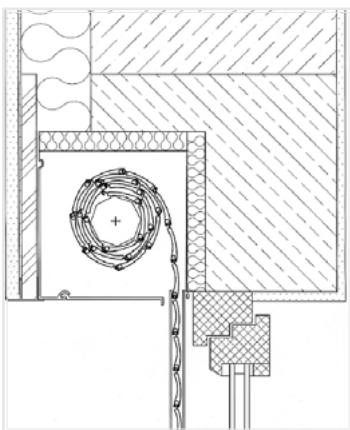
BOX SPE

CONSTRUCTION OF ROLLER SHUTTER

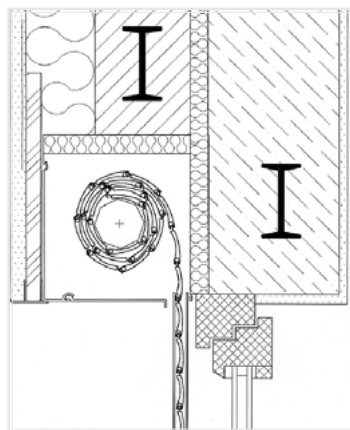


- 1 - SHUTTER BOX
- 2 - SIDE CAP
- 3 - DISTANCE TO REVISION PANEL
- 4 - REVISION PANEL'S CAP
- 5 - REVISION PANEL'S BRACKET
- 6 - REVISION PANEL
- 7 - OCTAGONAL TUBE
- 8 - ADAPTING RING
- 9 - CAP
- 10 - BEARING
- 11 - PULLEY
- 12 - ENTRY GUIDE
- 13 - PLASTER CARRIER
- 14 - CURTAIN'S HANGER
- 15 - CURTAIN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

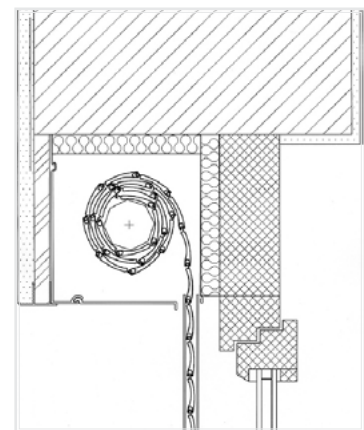
MOUNTING OPTIONS



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	110	-	80	-	-	-
15,0	120	-	125	-	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)	Profile PE 41				Profile 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 m ² (EUR)
Profile PA 39	66,25
Profile PA 43	75
Profile PA 52	95,25
Profile PE 41	149,25
Profile PE 41 with WK2*	211,50

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	+ 8,25 EUR / m ²
Slats PA 45 extra colour	+ 10,25 EUR /m ²
Slats PA 52 extra colour	+ 11 EUR/m ²
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	+ 21 EUR / pc
Guiding rail PP 45 in standard colour	+ 2,25 EUR /lm
Guiding rail PP 68 in standard colour	+ 6,50 EUR /lm
Angular guiding rail PK 53 in standard colour	+ 4,75 EUR /lm
Guiding rail with distance 12 mm PP53/ODS in standard colour	+ 6,25 EUR /lm
Distance 20 mm D/PP for PP 53 guiding rail	+ 6 EUR/lm
Strengthened guiding rail PPW 66	+ 17,50 EUR/lm
Hook-lock mosquito-net (price of 1m ²)	+ 39,75 EUR/m ²
Click-lock mosquito-net (price of 1 m ²)	+ 46,75 EUR/m ²
Independent division of Easy Click anti-mosquito net	+ 13 EUR/pcs

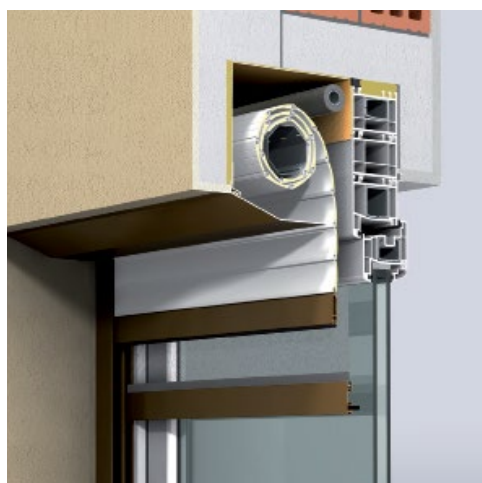
* except glitter colors

DRIVE`S OPTIONS		ADDITIONAL SECURITY OPTIONS	
Manual tape/rope winder	included in price	Manual bolt	4 EUR / set
Spring-drive	23,25 EUR /set	Automatic bolt	17,75 EUR / set
Crank winder	22 EUR /set	Key-lock + handle	35,50 EUR / set
ACE crank-mechanism + crank with Cardan joint	75,50 EUR/ set	Blockade hanger	5,25 EUR / pc
Electric drive	page 37-46	PW hanger	9,75 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.

3.3. PRICE LIST OF ROLLER SHUTTERS IN PUTZ BOX



Type	Price for 1 m ² (EUR)
Profile PA 39	69,25
Profile PA 43	77,50
Profile PA 52	98
Profile PE 41	152,25
Profile PE 41 with WK2*	214,25

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	
Slats PA 39 in extra colour	+ 8,25 EUR / m ²
Slats PA 45 extra colour	+ 10,25 EUR /m ²
Slats PA 52 extra colour	+ 11 EUR/m ²
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	+ 21 EUR /pc
Guiding rail PP 45 in standard colour	+ 2,25 EUR /lm
Guiding rail PP 68 in standard colour	+ 6,50 EUR / m
Angular guiding rail PK 53 in standard colour	+ 4,75 EUR /lm
Guiding rail with distance 12 mm PP53/ODS in standard colour	+ 6,25 EUR /lm
Distance 20 mm D/PP for PP 53 guiding rail	+ 6 EUR /lm
Strengthened guiding rail PPW 66	+ 17,50 EUR / lm
Hook-lock mosquito-net (price of 1 m ²)	+ 39,75 EUR / m ²
Click-lock mosquito-net (price of 1 m ²)	+ 46,75 EUR /m ²
Independent division of Easy Click anti-mosquito net	+ 13 EUR/pc

* except glitter colors

DRIVE`S OPTIONS	
Manual tape/rope winder	included in price
Spring-drive	23,25 EUR / set
Crank winder	22 EUR /set
ACE crank-mechanism + crank with Cardan joint	75,50 EUR/ set
Electric drive	page 37-46

ADDITIONAL SECURITY OPTIONS	
Manual bolt	4 EUR / set
Automatic bolt	17,75 EUR / set
Key-lock + handle	35,50 EUR / set
Blockade hanger	5,25 EUR / pc
PW hanger	9,75 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. ROLLER SHUTTERS IN PVC BOX - TOP-MOUNTED



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



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



- 1. 165X175** CLEVERBOX
2. 205X215



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

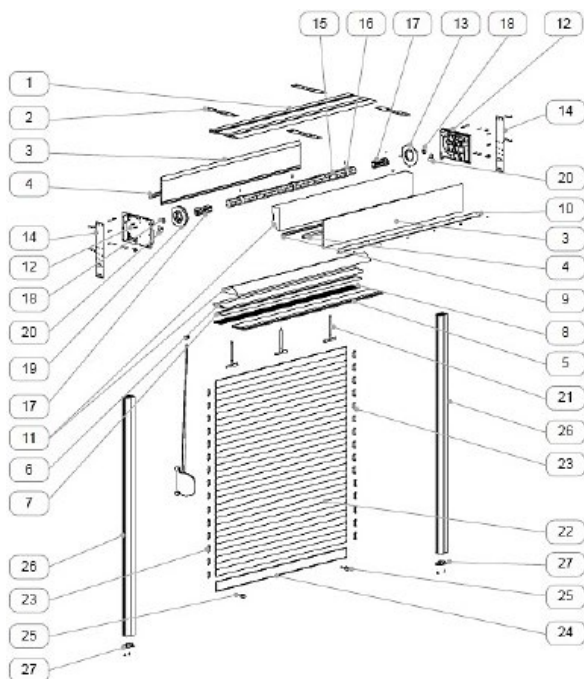


- 1. 260x265** AK-FLEX INTERNAL REVISION
2. 260x305
3. 260x365



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

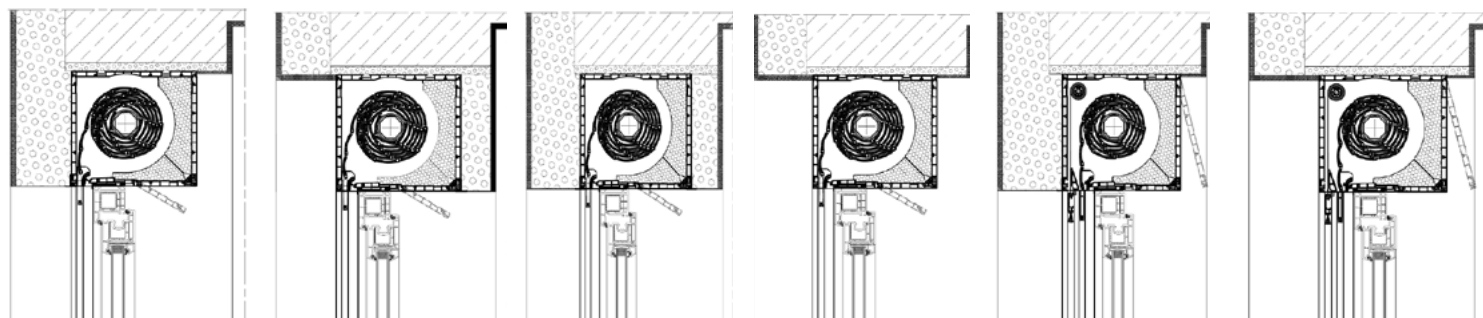
CONSTRUCTION OF ROLLER SHUTTER



- | | |
|--------------------------------|-----------------------------|
| 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 | |
| 14 - WINDOW FRAME CONNECTOR | |
| 15 - OCTAGONAL TUBE | |
| 16 - ADAPTING RING | |
| 17 - CAP | |
| 18 - BEARING | |

(optionally with extra charge)

MOUNTING OPTIONS



Type „A”

Type „B”

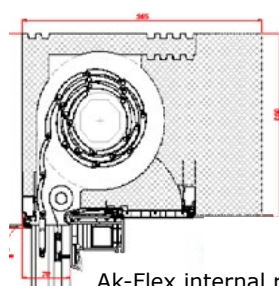
Type „C”

Type „D”

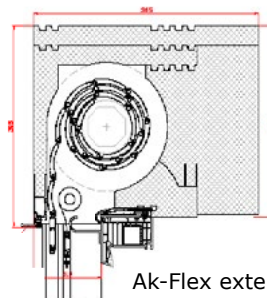
Type „E”

Type „F”

NOTICE: Option „B” and „C” unavaible in Cleverbox 165x175 mm, 205x215 mm.



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		
	Oknoplast			
BM 73, BLU 82				

* 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

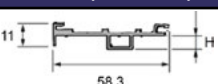
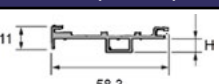
CLEVERBOX/ CLEVERBOX WIDE											
Height of box (cm)	Profile PA 39						Profile PA 43				Profile PA 52
	Ø 40	PW 40	Ø 60	PW 60	with mosquito net*		Ø 40	Ø 60	with mosquito net*		Ø 60
					Ø 40	Ø 60			Ø 40	Ø 60	
16,5	150	-	145	-	80	-	202	146	-	-	100
20,5	260	200	250	180	160	150	317	280	210	154	175
24,5	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
					Ø 40	Ø 60				
26,0	350	300	325	260	350	325	375	375		250

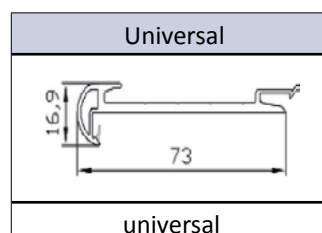
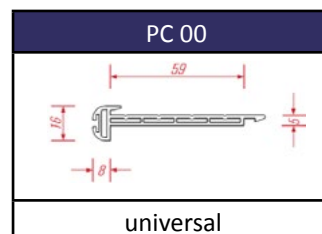
PW - with blockade hangers

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

Adaptive-profiles for OPOTERM system

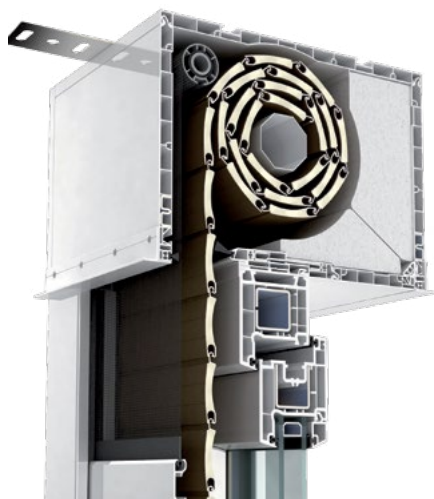
PSA	PSAW (H=6,8mm)	PSAW (H=8mm)
		
Wooden windows	KBE	Gealan
Aluplast	Aluplast	Rehau
Gealan		Veka
Rehau		Trocal
Veka		Dobroplast
Foris		
Salamander		

Adaptive-profiles for CLEVERBOX system



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	63,75
Profile PA 43	72,25
Profile PA 52	83,25

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

NOTE

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

ADDITIONAL CHARGES

TYPE	PRICE (EUR)	
Slats PA 39 in extra colour	+ 8,25 EUR/m ²	
Slats PA 343 in extra colour	+ 10,25 EUR/m ²	
Slats PA 52 in extra colour	+ 11 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*	+ 10,25 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)	54 EUR/m ²	
Console strengtning	19 EUR/pc	
Montage anchor	0,50 EUR/pc	
Plaster angle-carrier in colors: white RAL 9016, dark brown RAL 8019, anthracite RAL 7016.	0,60 EUR/lb	
Painting of sides*	5,25 EUR /couple- minimum 78 EUR	
Overlay of side cover – oval or rectangular – white or dark brown	5,00 EUR/couple	
Internal wall cap – oval	+ 2,5 EUR/m	

* except glitter colors

DRIVE`S OPTIONS

Manual tape winder	included in price
Spring-drive	22 EUR/ set
ACE crank-mechanism + crank with Cardan joint	75,50 EUR / set
Electric drive	page 37-46

ADDITIONAL SECURITY OPTIONS

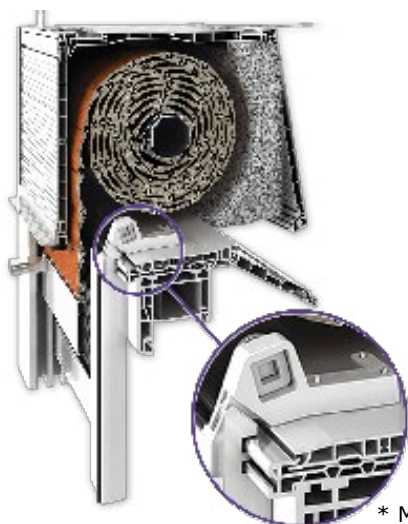
Manual bolt	4 EUR / set
Automatic bolt	17,75 EUR / set
Key-lock + handle	35,50 EUR / set
Blockade hanger	5,25 EUR / pc
PW hanger	9,75 EUR / pc

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	63,75
Profile PA 43	72,25
Profile PA 52	83,25

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 – 5m

* Mosquito net partition

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	+ 8,25 EUR/m ²	
Slats PA 43 in Extra colour	+ 10,25 EUR/m ²	
Slats PA 52 in Extra colour	+ 11 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*	+ 10,25 EUR/lb	
Listwa dolna w kolorze RAL*	+ 5%	
Box' height increasing for each following size	+ 5%	
Roller shutters' combination with one common drive	+ 21 EUR/pc	
Click-lock mosquito-net (charge for 1 m ²)	54 EUR/m ²	
Independent division of Easy Click anti-mosquito net	31,25 EUR/pc	
Console strengtening	0,20 EUR/pc	
Montage anchor	0,60 EUR/pc	
Plaster angle-carrier in colors: white, anthracite, carmel	0,60 EUR/lb	
Painting of sides*	5,00 EUR /couple- minimum 75,00 EUR	
Mask of side cap in white	5,00 EUR/couple	

* except glitter colors

DRIVE`S OPTIONS	
Manual tape winder	included in price
Spring-drive	22 EUR/set
ACE crank-mechanism + crank with Cardan joint	75,50 EUR/set
Electric drive	page 37-46

ADDITIONAL SECURITY OPTIONS	
Manual bolt	4 EUR / set
Automatic bolt	17,75 EUR / set
Key-lock + handle	35,50 EUR / set
Blockade hanger	5,25 EUR / pc
PW hanger	9,75 EUR / pc

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.

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

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



1.165X175
2.205X215



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

Type	Price for 1m ² (EUR)
Profile PA 39	63,75
Profile PA 43	72,25
Profile PA 52	83,25

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	+ 8,25 EUR/m ²		
Slats PA 43 in Extra colour	+ 10,25 EUR/m ²		
Slats PA 52 in Extra colour	+ 11 EUR/m ²		
Veneer depends on price group (page 7)	D	D1	D2
1-side Renolit veneer OUTSIDE (box, guiding rails, bottom rail)	+ 15%	+ 20%	+ 25%
1-side Renolit veneer INSIDE (box, revision panel)	+ 10%	+ 15%	+ 20%
2-side Renolit veneer (box, guiding rails, bottom rail, revision panel)	+ 25%	+ 35%	+ 45%
Wood imitation guiding rails	+ 7%	+ 9%	+ 11%
Wood imitation revision panel	+ 5%	+ 7%	+ 9%
Wood imitation bottom rail	+ 2%		
Aluminium guiding rails in RAL colour*	+ 9,75 EUR/lb		
End list in RAL color*	+ 2%		
Box' height increasing for each following size	+ 5%		
Roller shutters' combination with one common drive	+ 21 EUR/pc		
Click-lock mosquito-net (charge for 1 m ²)	54 EUR/m ²		
Console strengtning	19 EUR/pc		
Montage anchor	0,50 EUR/pc		
Painting of sides*	5,25 EUR /couple- minimum 78 EUR		

* Except glitter colors – page 48

DRIVE`S OPTIONS	
Manual tape winder	included in price
Spring in the tube winding	23,25 EUR / Set
Crank winder	22 EUR / Set
ACE crank-mechanism + crank with Cardan joint	75,50 EUR / Set
Electric drive	page 37-46

ADDITIONAL SECURITY OPTIONS	
Manual bolt	4 EUR / set
Automatic bolt	17,75 EUR / set
Key-lock + handle	35,50 EUR / set
Blockade hanger	5,25 EUR /pc
PW hanger	9,75 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 m ² (EUR)
Profile PA 39	165,50
Profile PA 43	172,50
Profile PA 52	182

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

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.

CHARGES	
TYPE	PRICE (EUR)
Box AK-F 305 with internal revision	+13 EUR/lb
Box AK-F 365 with internal revision	+31,25 EUR/lb
Box AK-F 415 with internal revision	+52 EUR/lb
Box AK-F with external revision	5%
Single PVC guiding rail with Renolit veneer	+ 9,25 EUR/lb
Double PVC guiding rail with Renolit veneer	+ 11,75 EUR/lb
Adapter for PVC single guiding rail in veneer	+ 18,75 EUR/lb
Adapter for PVC double guiding rail in veneer	+ 15,25 EUR/lb
AL single guiding rail in RAL color*	+ 22 EUR/lb
AL double guiding rail in RAL color*	+ 27,75 EUR/lb
Adapter for AL single guiding rail in RAL color*	+ 20,25 EUR/lb
Adapter for AL double guiding rail in RAL color*	+ 23 EUR/lb
Cover for net chamber in guiding rail/adapter AL	+ 10 EUR/lb
Easy Click anti-mosquito net	+ 66,50 EUR/m ²
Blocking hanger	+ 5,25 EUR/pc

* Except glitter colors – page 48

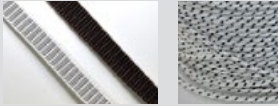
DRIVE'S OPTION	
Crank winde	22 EUR/set
ACE crank mechanism + crank with Cardan joint	75,50 EUR/set
Electrical drive	page 39-47

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 tape winder	5,50 EUR/pc
	tape winder	Rope or tape	0,30 EUR/Im
	spring drive	Mechanism which helps to operate roller shutter.	23,25 EUR/pc
	manual bolt	Manual lock, which blocks curtain's bottom rail in "closed" position.	4 EUR/set
	automatic bolts	Automatic lock, which blocks curtain's bottom rail in "closed" position. Automatically released during opening.	17,75 EUR/set
	key-lock	Masking plate in colours: white, grey, brown, dark brown. 3 keys included.	30 EUR/set
	pvc handle	Used with spring drive or key-lock (white, dark brown)	5,50 EUR/pc
	crank-winder	Mechanism to wind tape or rope (white, brown)	22 EUR /pc
	Mignon crank	140 mm crank	
	crank	150 cm crank	75,50 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	9,75 EUR / pc
	Lock to Play hanger	Blocking curtain's hanger. Does not require any special adapting ring - recommended every 50 cm	5,25 EUR/pc

6. PRICE LIST OF RKS

PRICE LIST		
TYPE	Unit	Price

EQUIPMENT FOR ELECTRIC DRIVE

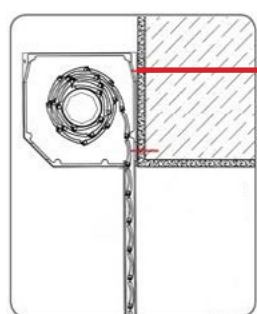
Tube Ø 60	lm	4,50 EUR
Bearing support, cap Ø 60, PVC bearing, Plate for electric motor	kpl	9,75 EUR

EQUIPMENT FOR MANUAL DRIVE

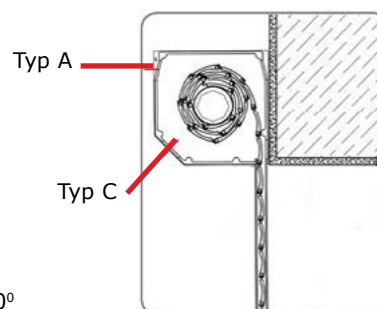
Tube Ø 60	lm	4,50 EUR
Tube, Bearing support, Cap Ø 60, Pulley, PVC bearing, Tape entry guide 22 mm, Under-plaster cover of tape winder, Tape (stripe), Tape winder 6 m	kpl	19,50 EUR

ADDITIONS

Window stabilizer	pc	11,25 EUR
Support for combination	pc	12 EUR



Typ B



Typ A

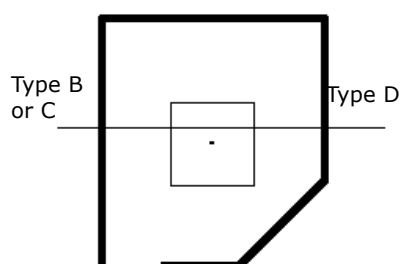
Typ C

Type A - Cardan joint 90°

Type B - Cardan joint 90°

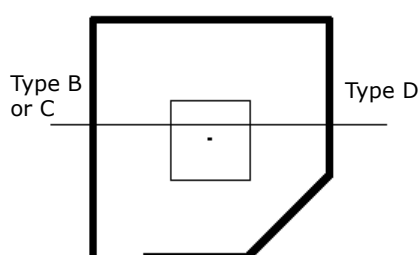
Type C - Cardan joint 45°

Box 350



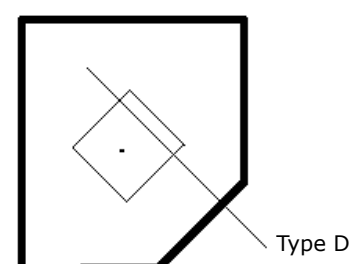
NHK only horizontally. It is not possible to install joints. You can install NHK security.

Box 300/250



NHK only horizontally. You can mount the 90° joints. You can install NHK security.

Box 300/250



NHK vertically (diagonal exit). You can mount the 45° joints or the type "D" of NHK protection

All types of "D" type outputs can be ordered with a hexagon rod crank (in the case there are no joints).

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 imitation	+	+	+	-	-	-
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 imitation	-	-	-	-	-	-
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	LM	L	L	L
RAL			LM	LM	LM	L	L	L

+ standard colour
 D colour with extra charge
 L requires dry painting, extra charge (Term of realisation is about 10 working days.)
 LM 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 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	1037	1191	1345	1499	1653	1806	1960	2114	2267
	2,2	1114	1281	1448	1616	1783	1950	2118	2285	2453
	2,4	1189	1370	1551	1732	1913	2094	2275	2456	2638
	2,6	1265	1460	1655	1849	2044	2238	2433	2628	2823
	2,8	1341	1549	1758	1966	2174	2383	2591	2799	3008
	3	1436	1661	1886	2111	2336	2560	2785	3010	3234
300	3,2	1512	1751	1989	2228	2466	2705	2943	3181	3419
	3,4	1588	1840	2092	2344	2596	2848	3101	3352	3605
	3,6	1664	1930	2195	2461	2727	2992	3258	3524	3789
	3,8	1740	2019	2298	2578	2857	3137	3416	3695	3974
	4	1816	2109	2402	2695	2987	3280	3573	3867	4160
	4,2	1892	2198	2505	2811	3118	3425	3731	4038	4344
	4,4	1967	2288	2608	2928	3248	3569	3889	4209	4529
	4,6	2044	2377	2711	3045	3379	3713	4046	4380	4714
	4,8	2119	2467	2814	3162	3509	3857	4204	4552	4899

PRICE INCLUDES:

Inertial brake, 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 SHUTTERMADE OF PROFILES PE 55

Class III according to PN-EN 1627: 2011

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	864	929	995	1061	1126	1192	1258	1323	1389	1455
		1,6	914	986	1059	1131	1204	1277	1349	1422	1494	1567
		1,8	964	1043	1123	1202	1281	1361	1440	1520	1599	1678
PPW90	250	2	1037	1125	1213	1300	1388	1475	1563	1650	1738	1825
		2,2	1088	1182	1277	1371	1465	1559	1654	1748	1842	1937
		2,4	1138	1239	1341	1442	1542	1644	1745	1846	1947	2049
		2,6	1188	1296	1404	1512	1620	1728	1836	1944	2052	2160
		2,8	1238	1354	1468	1583	1698	1813	1927	2042	2157	2272
		3	1301	1425	1548	1671	1794	1916	2039	2163	2286	2408
	300	3,2	1352	1482	1612	1741	1871	2001	2131	2261	2391	2520
		3,4	1402	1539	1676	1812	1949	2086	2222	2359	2495	2632
		3,6	1452	1596	1739	1883	2026	2170	2313	2456	2600	2743
		3,8	1503	1653	1803	1953	2104	2254	2404	2555	2705	2855
		4	1553	1710	1867	2024	2181	2338	2495	2653	2810	2967
		4,2	1603	1767	1931	2095	2259	2423	2586	2750	2915	3079
		4,4	1653	1824	1995	2166	2336	2507	2678	2849	3019	3190

Price includes:

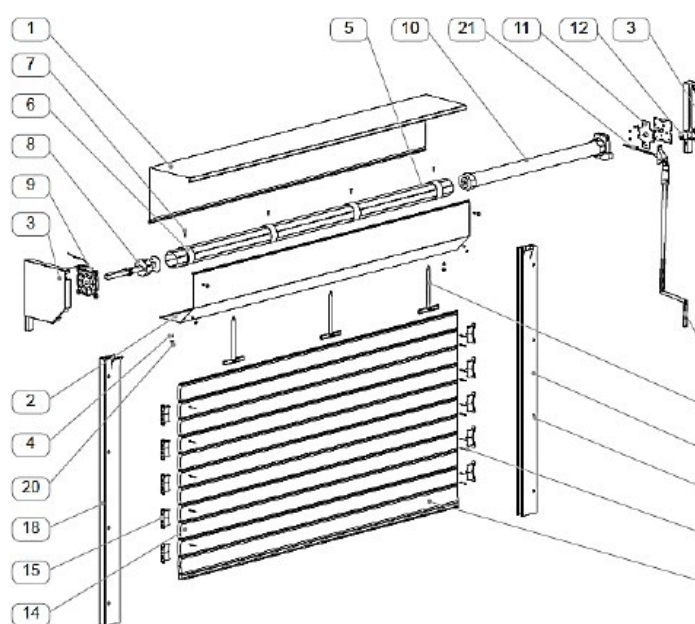
Roller shutter with increased resistance for burglary, unvarnished slats PE 55 in guiding rails PPW 80 or PPW 90, with blocking hangers WB, bottom rail LDG 55/W, anti-burglary set, inertial brake. **Price does not include electric drive.**

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

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	135	152	169	186	201	220	236	252	270	286	302	329	346	362	381	427	434	443	450
		1,2	152	170	190	208	226	246	264	282	302	320	338	368	387	405	426	480	486	496	503
		1,4	166	185	207	226	246	267	287	306	328	348	367	398	418	438	461	521	528	537	544
		1,6	182	203	227	249	270	294	315	337	361	382	403	437	459	481	505	574	580	590	597
		1,8	198	222	247	271	295	320	344	367	393	416	440	476	499	523	550	626	633	642	
		2	214	240	268	294	319	347	372	398	425	451	476	514	540	566	594	679			
205	PP 66	2,2	243	272	303	333	362	394	423	452	484	513	542	583	613	643					
		2,4	259	290	324	355	387	420	451	483	516	547	578	622							
		2,6	273	306	341	373	406	441	474	507	542	574	607								
250	PP 75	2,8	315	350	388	423	459	497	532	568	605	641									
		3	331	369	408	446	484	523	561	598	638										
		3,2	348	387	429	469	508	550	590	629											
		3,4	364	406	450	491	533	577	618												
		3,6	381	425	471	514	558	604	647												
		3,8	398	444	491	537	583	630													
300	PP 75	4	412	459	509	556	603	652													
		4,2	441	492	545	595	646														
		4,6	475	529	586	641															
		4,8	491	548	607	663															
		5	508	567	627	686															

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 of boxes and guiding rails according to PP 66, PP 75 page 28

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	
180	PP 66	1	141	158	176	194	212	230	248	266	284	302	320	337	355	355	372	389	405	422	441	459	
		1,2	155	174	194	214	234	254	272	293	312	333	353	371	391	392	411	430	448	467	487	507	
		1,4	183	206	230	255	278	303	325	350	373	398	421	445	468	474	497	520	542	565	589	613	
205		1,6	200	226	252	279	305	332	357	383	409	436	462	488	514	522	547	573	597	623	649	676	
		1,8	215	242	270	298	327	355	382	411	438	467	495	522	550	559	587	614	640	667	696	724	
		2	254	285	316	349	380	413	443	476	507	539	571	603	634	648	678	709	739	770	802		
250	PP 75	2,2	271	304	339	373	407	442	475	509	543	578	612	646	680	695	729	762	795				
		2,4	285	320	356	393	429	465	500	536	572	609	645	680	716	733	768						
		2,6	303	340	378	418	455	495	532	570	609	647	686	723	761	781							
		2,8	317	356	396	437	477	518	556	597	637	678	718	758									
		3	351	395	439	484	528	573	616	661	705	750	794										
300		3,2	369	415	462	509	555	603	648	695	742	789											
		3,4	384	432	480	529	577	626	674	722	771												
		3,6	401	452	503	554	605	656	705	757	808												
		3,8	419	471	525	579	632	685	737	791													
		4	434	488	543	599	654	709	763														
		4,2	452	508	566	624	681	739	795														

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 complies with roller gate.

ADDITIONAL CHARGES	
Type	Price
Slats in extra colour	+ 12,25 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	104,50 EUR/ pc

DRIVE'S OPTIONS	
Spring in the tube winding	23,25 EUR / Set
Electric drive	page 39

ADDITIONAL SECURITY OPTIONS	
Key-lock + handle	35,50 EUR / Set
Blockade hanger PW	9,75 EUR / pc
Hanger	5,25 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.

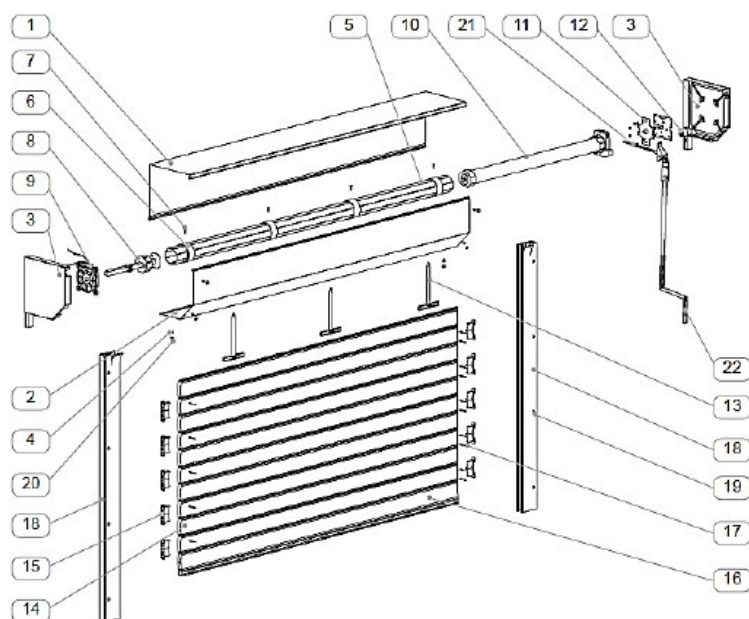
IO Homecontrol® radio technology allows mutual communication between devices. It does not generate high installation costs and it does not require special infrastructure – no main line for data transmission or cable control installation required.

Thanks to central control you can freely operate roller shutters, gates, heating, lights and other devices without standing up from your armchair.



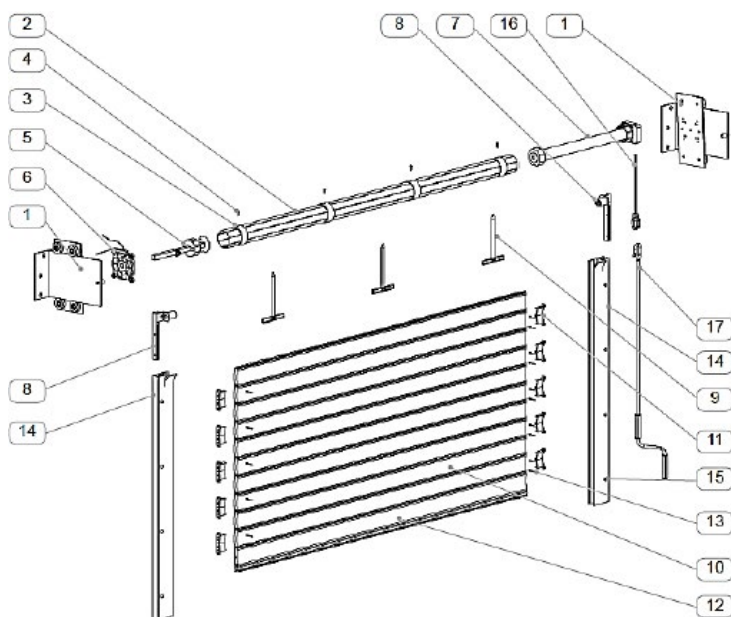
9. ROLLER SHUTTERS - PROFILE PA 77 AND ROLLING GATES

CONSTRUCTION OF ROLLER SHUTTER WITH ALUMINIUM BOX



- 1 - SHUTTER BOX – TOP
- 2 - SHUTTER BOX – BOTTOM
- 3 - SIDE CAP
- 4 - SCREW
- 5 - OCTAGONAL TUBE
- 6 - ADAPTING RING
- 7 - SCREW
- 8 - CAP
- 9 - INERT-BRAKE
- 10 - ELECTRIC MOTOR
- 11 - PLATE FOR ELECTRIC MOTOR
- 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

CONSTRUCTION OF ROLLER SHUTTER WITH MOBILE CONSOLE



- 1 - MOBILE-CONSOLE
- 2 - OCTAGONAL TUBE
- 3 - ADAPTING RING
- 4 - SCREW
- 5 - CAP
- 6 - INERT-BRAKE
- 7 - ELECTRIC MOTOR
- 8 - GUIDING ROLLER
- 9 - CURTAIN'S HANGER
- 10 - CURTAIN
- 11 - PROFILE'S SIDE LOCK
- 12 - BOTTOM RAIL
- 13 - ALUMINUM RIVETS
- 14 - GUIDING RAIL
- 15 - GUIDINGRAIL'S CAP
- 16 - AXIS
- 17 - CRANK

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 1m ² 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	209	185	169	157	150	143	146	141	136
300	2,01 - 2,50	191	163	150	141	134	129	151	147	143
300	2,51 - 3,00	165	147	147	134	122	118	136	133	129
350 *	3,01 - 4,50	173	152	139	129	123	118	129	-	-

* 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

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
300	2	551	589	627	666	704	741	780	818	856	894	932	971	1009	1047
	2,2	590	631	672	713	754	795	836	877	919	959	1000	1042	1083	1124
	2,4	628	673	717	760	804	849	893	937	980	1025	1069	1113	1157	1201
	2,6	667	714	761	808	855	902	949	996	1043	1090	1137	1184	1231	1278
	2,8	706	756	806	856	906	956	1005	1056	1105	1155	1205	1255	1305	1355
	3	745	797	850	903	956	1009	1062	1115	1168	1221	1273	1326	1379	1432
350	3,2	802	858	916	973	1030	1088	1145	1202	1259	1316	1374	1431	1488	1545
	3,4	840	900	960	1020	1081	1141	1201	1261	1322	1382	1442	1502	1562	1622
	3,6	879	942	1005	1068	1131	1195	1258	1321	1384	1447	1510	1573	1636	1700
	3,8	918	984	1050	1116	1182	1248	1314	1380	1446	1512	1578	1645	1711	1777
	4	956	1025	1094	1163	1232	1302	1370	1440	1508	1578	1647	1716	1785	1854
	4,2	995	1067	1139	1211	1283	1355	1427	1499	1571	1643	1715	1787	1859	1931
	4,4	1034	1109	1183	1259	1334	1408	1484	1558	1633	1708	1783	1858	1933	2008

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	+ 17,75 EUR/m ²
Slats in EXTRA colour R (1-side renolit veneer)	+ 50 EUR/m ²
Slats in EXTRA colour R (2-side renolit veneer)	+ 89 EUR/m ²
Bottom rail LDG/D in RAL colour	page 48
Box in RAL colour	page 48
Guiding rails in RAL colour	page 48
Openwork (lightning) profile (raw aluminum with glazing) – weight 0,95 kg/lm	13 EUR/lm
Security key-lock for NHK emergency crank-opening	29 EUR/pc
Electric drive	page 46
Back side of box 350	15,25 EUR/ Im
Blocking hanger PW	9,75 EUR/pc

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	247	220	203	192
		1,51 - 2,00	213	194	184	176
		2,01 - 2,50	194	182	174	169
250	PP75	2,51 - 3,00	182	174	168	165
		3,01 - 3,50	182	174	169	166
		3,51 - 4,00	174	168	165	-
300		4,01 - 4,50	117	163	-	-
		4,51 - 5,00	164	161	-	-

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 1m ² 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	333	302	282	268	257	250	244
300	2,01 - 2,50	304	277	261	249	241	235	229
300	2,51 - 3,00	282	257	243	233	226	220	216
350	3,01 - 4,50	286	261	245	235	227	220	215

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

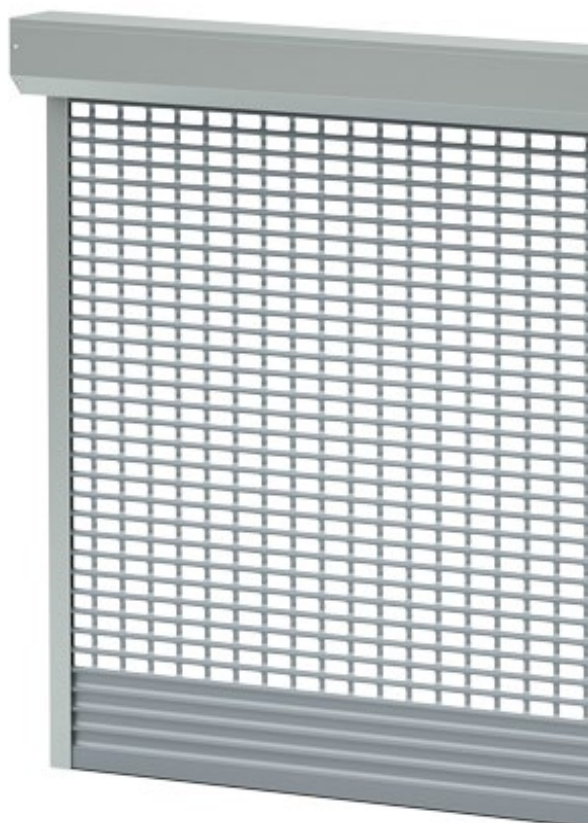
10.3. PRICE LIST OF ROLLING GRILLES MADE OF PROFILE PEK 80 IN MOBILE-CONSOLE

Total height (m)	Total width (m), price per 1 m ² 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
1,5 - 2,00	360	318	291	272	258	247	219
2,01 - 2,50	325	290	267	252	241	232	209
2,51 - 3,00	298	267	249	235	226	219	200
3,01 - 3,50	280	255	239	228	219	213	197
3,51 - 4,00	266	243	228	218	211	205	-
4,01 - 4,50	259	237	223	214	208	-	-
4,51 - 5,00	250	229	217	208	-	-	-

Price include:

- Mobile-console
- Tube 70
- Guiding rails PP 89 With cups
- 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	-	111,75
Somfy	LS 40 Aries S 4/14	53	12	10	-	127,50
Somfy	LS 40 Mars 9/14	57	24	20	-	123
Somfy	LS 40 Vulcan 13/8	58	39	32	-	136,50

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	-	136,25
Somfy	Ilmo 40WT 9/14*	62	26	22	-	158,25
Somfy	Ilmo 40WT 13/8*	62	39	32	-	166,75

tube Ø 40 - built-in radio receiver, mechanical 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
Somfy	OXIMO 40 io 4/16*	60	12	10	-	190,75
Somfy	OXIMO 40 io 9/16*	60	26	22	-	206,75

Silnik OXIMO 40 Wirefree RTS 10 Nm/12

Somfy	OXIMO 40 Wirefree RTS	60	26	22	-	563,75
-------	-----------------------	----	----	----	---	--------

tube Ø 60-70 - mechanical limiters

Vertex	VS 9/20	60	40	35	32	46,25
Vertex	VS 9/40	70	70	66	64	61,75
Simu	JOB 5S 8	65	15	12	11	70
Simu	JOB 5S 10	66	25	21	18	77
Simu	JOB 5S 15	66	37	32	27	84
Somfy	Ariane 6/17	65	15	12	11	125,50
Somfy	Jet 10/17	70	25	21	18	140,50
Somfy	Atlas 15/17	67	37	32	27	144,25
Somfy	Meteor 20/17	70	50	43	37	154,50
Somfy	Gemini 25/17	75	63	53	46	167,25
Somfy	Mariner 40/17	80	100	85	74	206
Somfy	Vectran 50/12	80	118	96	84	211

* 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 Ø 60-70 - mechanical limiters, NHK

Vertex	VS 9/50 NHK	75	82	75	70	69
Somfy	Jet 10/17 NHK	70	25	21	18	166,75
Somfy	Meteor 20/17NHK	75	50	43	37	194,50
Somfy	Gemini 25/17NHK	75	63	53	46	203,50
Somfy	Mariner 40/17NHK	83	100	85	74	237,25
Somfy	Vectran 50/12 NHK	75	118	96	84	239,25

tube Ø 60-70 electronic limiters, with overload protection

Vertex	VS 9/20 P*	56	42	38	36	85
Somfy	Ilmo 50 WT 6/17 *	65	15	12	11	137
Somfy	Ilmo 50 SWT 6/17 short*	50	15	12	11	179,50
Somfy	Ilmo 50 WT 10/17 *	65	25	21	18	156,75
Somfy	Ilmo 50 WT 15/17 *	65	37	32	27	165,50
Somfy	Ilmo WT 20/17 *	76	50	43	37	186
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
Selve	Sel Plus 2/20	64	45	37	30	154
Simu	T5 Autojob 6*	65	15	12	11	113
Simu	T5 Autojob 10*	65	25	21	18	130
Simu	T5 Autojob 15*	65	37	32	27	144,25

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

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

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

Vertex	VS 9/50 NHK R	90	82	77	74	112,50
Somfy	Jet NHK RTS 10/17	90	25	21	17	247,50
Somfy	Meteor NHK RTS 20/17	95	50	43	33	270,25
Somfy	Apollo NHK RTS 20/17	95	75	64	55	289,75
Somfy	Mariner NHK RTS 40/12	95	100	85	74	297,25
Somfy	Vectran NHK RTS 50/12	95	118	96	84	318,75

* 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	202,75
Somfy	Oximo RTS 6/17 *	75	15	12	11	177
Somfy	Oximo RTS 10/17 *	80	25	21	18	197,25
Somfy	Oximo RTS 15/17 *	80	37	32	27	213,50
Somfy	Oximo RTS 20/17 *	85	50	43	37	232
Selve	Sel Plus RC 7 Nm	60	19	15	12	153,50
Selve	Sel Plus RC 10 Nm	60	25	20	15	160
Selve	Sel Plus RC 20 Nm	64	45	37	30	175

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
Simu	T5 E Hz-15/17*	72	29	26	24	186,75
Simu	T5 E Hz-20/17*	80	39	34	31	201

Tube fi 70 – mechanical limiters

Vertex	VS 11/100	90	120	115	110	151,25
Somfy	Vega 60/12	75	135	117	109	196,75
Somfy	Sirius 80/12	75	180	157	147	219,25
Somfy	Titan 100/12	80	213	185	182	270
Somfy	Taurus 120/12	80	270	234	218	330

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
Somfy	Vega 60/12 NHK	80	135	117	109	265,25
Somfy	Sirius 80/12 NHK	80	180	157	147	288,50
Somfy	Titan 100/12 NHK	80	213	185	182	319
Somfy	Taurus 120/12 NHK	80	270	234	218	379,75

*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 Ø 60-70 - built-in radio receiver, electronic limiters, detection of obstacles

Somfy	Oximo S Auto RTS 6/17 *	50	15	12	11	202,75
Somfy	Oximo RTS 6/17 *	75	15	12	11	177
Somfy	Oximo RTS 10/17 *	80	25	21	18	197,25
Somfy	Oximo RTS 15/17 *	80	37	32	27	214
Somfy	Oximo IO 20/17*	85	50	43	37	239,75

Motors RS 100

Somfy	RS 100 iO 6 Nm*	67	15	12	11	234
Somfy	RS 100 iO 10 Nm*	80	25	21	18	251,75
Somfy	RS 100 iO 15 Nm*	80	37	32	27	264,75
Somfy	RS 100 iO 20 Nm*	85	50	43	37	278,25
Somfy	RS 100 iO WT 6 Nm*	67	15	12	11	240,50
Somfy	RS 100 iO WT 10 Nm*	80	25	21	18	258,75
Somfy	RS 100 iO WT 15 Nm*	80	37	32	27	273,75
Somfy	RS 100 iO WT 20 Nm*	85	50	43	37	287,75

IO		EUR/pc
TaHoma	Individual central device with internet connection	330
TaHoma Premium Base	Safety base with alarm siren	287,50
Connexoon box	1 application to choose	159,50
Connexoon box	2 applications to choose – window and terrace	182
Installation	Installation - Program service TaHoma - price exclude home-stretch	102
Set&Go	Tool for installation IO-device by using PC	226,50
Smoove Origin IO	Wall remote in form of switch – white with frame	40,50
Smoove 1 IO	1-channel wall remote in form of switch – grey, black. Silver*	48/54*
Smoove 1 A/M IO	1-channel wall remote in form of switch – grey/black/silver. Auto/manual switch	54,25
Frames for Smoove	Frames for wall remotes in silver/silver matt/black. Pure*	8/2,75*
Situo 1 IO Pure	1-channel remote white	40,50
Situo 1 IO Colour	1-channel remote – grey/green/orange	55,25
Situo 5 IO Pure	5-channel remote white	63,25
Situo 5 IO Colour	5-channel remote – grey/green/orange	86,25
NiNa Timer	Remote – individual and group control with time automatical technology	211,25
Repeater IO	Signal amplifier	254,25
Thermis Wirefree IO	Temperature sensor for TaHoma	106,75
TaHoma EnOcean Module	Interface for EnOcean devices	92,50
Internal camera	Rotating HD camera – VISIDOM ICM 100	274
External camera	Camera VISIDOM OC 100	285
Safety remote	Remote for TaHoma alarm	49,50
Opening sensor	Opening sensor for TaHoma	87,25



ADDITIONAL CHARGES	
TYPE	PRICE EUR/pc
Crank with hook 150 cm	8,50
Crank with hook 180 cm	9,50
Axis 180 mm	12,25
Axis 460 mm	14,75
Cardan joint 45° with handle – hexagonal	10,75
Cardan joint 90° with handle – hexagonal	18,25
Magnetic joint 90° with the ear hexagonal - 40 cm	40,50
Korba do przegubu magnetycznego	23
Axis joint for NHK motor	3
Inertial brake	150
Crank with joint - hexagonal	12,75

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 cabl

ACCESSORIES FOR ELECTRIC DRIVES

Controllers for garage gates VS

Central unit 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.	93,50
Photoelectric cell FOTODIY	Optical barrier cooperating with the central unit Axroll	44,75
Remote control Keytis 2NS 2-channel	2- channel remote control in the shape of pendant for central unit Axroll	14,25
Remote control Keytis 4NS 4-channel	4- channel remote control in the shape of pendant for central units Axroll	23,75
Remote control Keygo 4-channel	4- channel remote control in the shape of pendant for central units	26,75
Central ROLLIXO IO	To control one gate. It can work with remote controls, switches and photocells. Set with 2 remote controls Keygo IO.	225

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.	13
Switch Inis Uno B/P	Switch for blinds which require holding the switch during lifting and lowering blinds.	13,25
Switch Inis Duo Z/P	Switch for two blinds which does not require holding the switch during lifting and lowering blinds.	18,75
Switch Inis Duo B/P	Switch for two blinds which require holding the switch during lifting and lowering blinds.	18,75
Chronis Uno Smart	Switch with time programming for one roller shutter	82,75
Chronis Uno L	Switch with time programming for one roller shutter with possibility to connect sun sensor	95
Frame Inteo	On-wall frame to be used with switches Uno i Duo.	4,75

PRICELIST OF DRIVE'S CONTROLS

Central cable controls, serie IB Somfy

Smooove Uno IB	Individual switch cooperating with central switches	73
Chronis Smooove IB	Central switch	151,25

Radio control RTS - on-wall transmitters RTS, serie Somfy

Smooove Origin RTS	On-wall remote - white	35,25
Smooove RTS	On-wall remote without frame in gray, black and silver colour	41
Frame for Smooove	Frames for on-wall remotes in matt silver, silver and black colour. Pure*	8-2,75*
Chronis RTS Smart	1-channel on-wall transmitter with time programming	84
Chronis RTS L Comfort	1-channel on-wall transmitter with time programming with possibility to connect sun sensor	120

PRICELIST OF DRIVE`S CONTROLS

Remote controls RTS - serie Somfy - Price EUR/piece

Telis 1 Pure RTS	1 - channel remote control white - silver	33
Telis 1 Silver RTS	1 - channel remote control silver, white-blue, black	44,50 -58,50
Telis 4 Pure RTS	5 - channel remote control white - gray	59
Telis 4 Silver RTS	5 - channel remote control silver, white-blue, black	68-85,50
Telis 16 RTS Pure	16- channel remote control with screen. White.	140,75
Telis 16 RTS Silver	16- channel remote control with screen. Silver	153,75
Telis 6 Chronis RTS Pure	6-channel remote control with time programming - white	175,25
Telis 6 Chronis RTS Silver	6-channel remote control with time programming - silver	194,25

Additional device serii RTS

Sun sensor	Roller shutter opens and closes depending on the intensity of light. Dedicated To switch Chronis L Comfort.	32
Centralis Uno RTS	Switch dedicated to a single blinds with radio receiver - with the ability to support any RTS remote control.	90,25
Centralis Platine RTS	Radio receiver for mounting in the roller shutter box	91,25
Sunis Indor Wire Free	Easy to install wireless sun sensor.	110
Termo Sunis Indor RTS Wire Free	Radio temperature sensor - see page 46	140
Lighting Indor RTS	Receiver for control of lighting - see page 46	85,25
Shutter in-wall RTS receiver	Underplaster radio receiver dedicated to operate drives. With possibility to connect a switch.	103,25
Lighting in-wall RTS receiver	Underplaster radio receiver dedicated to control lighting With possibility to connect a switch.	103,25
Emergency power supply	Emergency power supply OXIMO WIRE FREE RTS	72

Transmitters for central wire systems

Transmitter R1-JUE-230	Dedicated to operate one drive and setting up central control	37,50
Transmitter TR2-U-E-230	Dedicated to operate two drives and setting up central control	51
Multipoint transmitter MR2	Dedicated to operate one drive with multiple switches	44,50
Cover for MR2	On-wall cover for transmitter MR2	11



Telis 6 Chronis RTS



Telis 16 RTS



Telis 1 Silver RTS



Situo 1 RTS

PRICELIST OF DRIVE`S CONTROLS

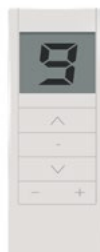
Remote controls / transmitters / radio receivers, serie VS - Price EUR/ piece		
Pil 01 PT	Underplaster remote control - cooperate with any no-support switch	22
Pil 01 NS	1 - channel on-wall remote control white, anthracite, silver, gray	26,75
Pil 04 NS	4- channel on-wall remote control white, anthracite, silver	32,25
Pil 01 HT	1- channel remote control with pendant	12
Pil 01 DL	1- channel remote control with pendant	22
Pil 05 DL	5 - channel remote control with pendant	32,25
Pil 19 DLT	19 - channel remote control with pendant and time programmer	65,25
Pil 99 DLT	99 - channel remote control with pendant and time programmer	76,25
ST01R	Radio receiver for cans with the possibility of connecting the switch.	33
ST01RL	Radio receiver for side of shutter	33
ST01RS	Radio receiver for lighting with the possibility of connecting the switch.	33
ST01RN	Flush-mounted switch with radio receiver	44
Wzmacniacz	Radio signal amplifier	71,50



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



1/5 - 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
COMMEO SEND 10 K	10-channel remote – white/black	75
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
On-wall adapter	• for on-plaster installation of switches	2,25
Button switches		
2-way button switch	• with support • underplaster	9
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
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



Key switch



rotating switch



button switch

Spacer profile 20x53mm (mahogany, walnut, golden oak).

12. COMPONENTS FOR ROLLER SHUTTERS

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	30,75	33,25	50,50	45,50
150	34,75	-	53,50	-
165	35,50	39	57,50	49,50
180	38,50	43,75	62,25	51,75
205	51,50	57	93,25	64,75
SLATS (bottom rail included in price)				
Type			Price EUR /m²	
V 39			37,50	
V 39 extra colour			45,25	
V 43			43,75	
V 43 extra colour			53,75	
PE 41			148,75	
PA 52			59,25	
PA 52 extra colour			69	
PE 55			201,75	
V 55			63,75	
V 55 extra colour			75,50	
V 77			80,75	
V 77 extra colour			98	
V 77 renolit R (1-sided veneer)			132,75	
V 77 renolit RD (2-sided veneer)			173,25	
GUIDING RAILS (standard colour)				
Type			Price EUR/lm	
PU 29			6,25	
PP 45			9,25	
PP 53			7,50	
A 20			11,25	
PPD 79			13	
PP 53 ODS			10	
PP 68			13,75	
PK 53			11,50	
PP 66			15,75	
PP 75			15,75	
PP 89			28,50	
PPW 66			24,50	
PPD 60/12 (Opoterm)			6	
PG 02 / PG 08 (Cleverbox)			6	
SR 60 (Vegas Revo)			6	
PPW 90			39,75	
GUIDING RAIL`S CAPS (standard colour)				
Aluminum mask for guiding rail.Dimensions: 18,5x82,2 mm (unvarnished, silver, white, gray, darkbrown, brown			6,25	
Aluminum mask for guiding rail.Dimensions: 15x53 mm			4,75	
Aluminum distance for guiding rails – allows to make distance. Dimensions: 20x53 mm (unvarnished, silver, white, gray, beige, darkbrown, brown, gray anthracite)			5,25	
Spacer profile 20x53 mm (mahogany, walnut, golden oak).			7,50	

* Wood imitation side caps - extra charge 18,25 EUR/set

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

Complete top-mounted box (All roller shutter`s systems) (box, side caps, tube, cap, bearings)	
Type	Price EUR/lm
Boxes 170, 165 complete	55
Boxes 205, 210 complete	64,75
Boxes 240, 245, 260 complete	82,25

13. PRICE LIST OF PAINTING ELEMENTS

Painting elements to any RAL color	
Element	Price EUR/lm
STANDARD AND HALF-ROUND BOXES	
Box 137	10
Box 150	11,25
Box 165	12,50
Box 180	13,75
Box 205	15
Box 250	20
Box 300	23,75
Box 350	29
GUIDING RAILS	
PPDO, PP 66, PP 68, PU 29, PP 53, PK 53, PP 53/ODS , PGA, A 20	5,25
PP 75, PP 89, PP 110	8
BOTTOM RAIL	
LDG 40, LDG wide, LDG/S (V55), LDG/D (V77)	5,25
ELEMENTS FOR UNDERPLASTER ROLLER SHUTTERS	
Carrier plaster and service cover 138, 150, 165, 180, 205	5,25
PANCER	
1-side painting of extruded curtain - powder coated	17 EUR / m ²
2-side painting of extruded curtain - powder coated	34 EUR / m ²
1-side painting of curtain - wet varnishing	65 EUR / m ²
2-side painting of curtain - wet varnishing	130 EUR / m ²
PVC elements painting	individual pricing

14. PRICE LIST OF MODIFICATIONS

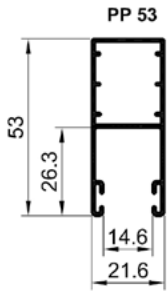
Type of modification	Price EUR/pc	Note
Roller shutter narrowing	28,75	
Curtain narrowing	21	
Changing the control side	21	
Roller shutter extension	21	+ material cost
Changing the type of drive / exchange on new / entrused motor assembly	21	+ material cost
Mounting automatic bolts in the final roller shutter	34	+ material cost
Installation of key-lock	18,25	+ material cost
Installation of latches	10,50	
Sides exchange	21	+ material cost

15. GLITTER RAL COLORS – EXTRA QUOTATION

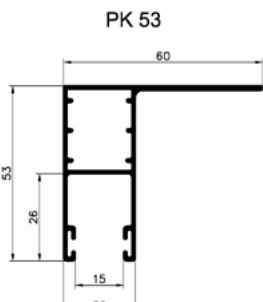
RAL 1000	RAL 1001	RAL 1002	RAL 1004	RAL 1005	RAL 1006	RAL 1011	RAL 1013	RAL 1014	RAL 1015
RAL 1016	RAL 1018	RAL 1019	RAL 1024	RAL 1034	RAL 2000	RAL 2001	RAL 2010	RAL 3003	RAL 3004
RAL 3005	RAL 3011	RAL 3015	RAL 4003	RAL 4006	RAL 4009	RAL 5002	RAL 5003	RAL 5005	RAL 5007
RAL 5009	RAL 5010	RAL 5011	RAL 5012	RAL 5013	RAL 5014	RAL 5015	RAL 5017	RAL 5018	RAL 5020
RAL 5023	RAL 5024	RAL 6000	RAL 6005	RAL 6009	RAL 6013	RAL 6019	RAL 6021	RAL 6027	RAL 6032
RAL 6033	RAL 6034	RAL 7001	RAL 7003	RAL 7004	RAL 7005	RAL 7006	RAL 7009	RAL 7011	RAL 7012
RAL 7013	RAL 7015	RAL 7016	RAL 7021	RAL 7022	RAL 7023	RAL 7024	RAL 7030	RAL 7031	RAL 7032
RAL 7035	RAL 7036	RAL 7037	RAL 7038	RAL 7039	RAL 7040	RAL 7042	RAL 7043	RAL 7044	RAL 7045
RAL 7046	RAL 7047	RAL 8001	RAL 8002	RAL 8003	RAL 8004	RAL 8007	RAL 8008	RAL 8011	RAL 8012
RAL 8014	RAL 8015	RAL 8016	RAL 8017	RAL 8019	RAL 8022	RAL 8025	RAL 8028	RAL 9001	RAL 9002
RAL 9003	RAL 9004	RAL 9005	RAL 9006	RAL 9007	RAL 9010	RAL 9011	RAL 9016	RAL 9017	

GUIDING RAILS

PP 53



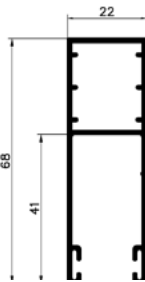
PK 53



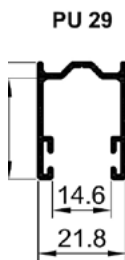
OPOTERM

PP 68

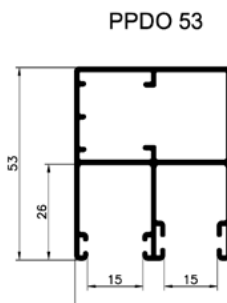
PP 68



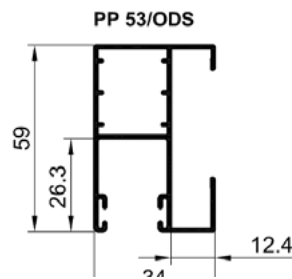
PU 29



A 20

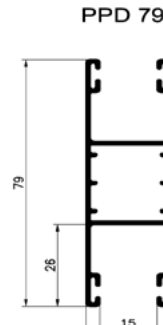


PP 53/ODS



CLEVERBOX

PPD 79

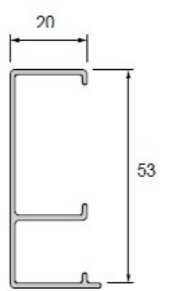


N/PPDO

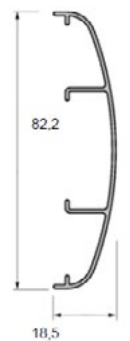


VEGAS REVO

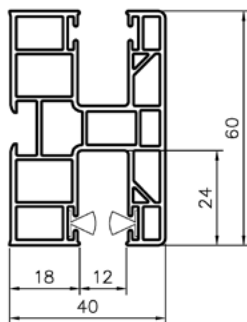
D/PP



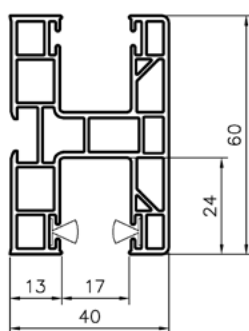
N/PPD79



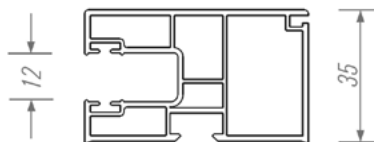
PPD 60/12



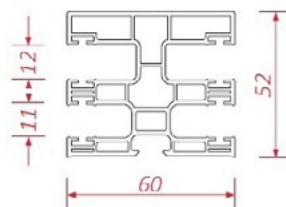
PPD 60/17



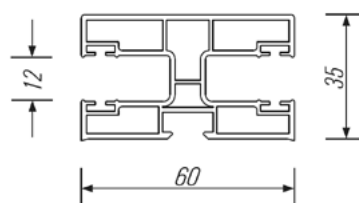
PG 08 - pvc



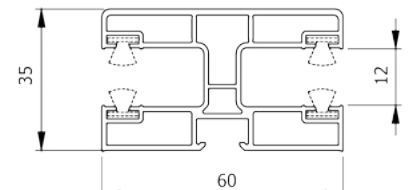
PG 09 - mosquito's guiding rail



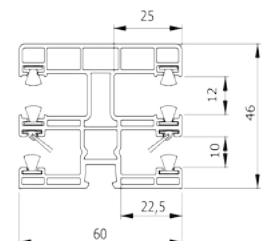
PG 02 - pvc



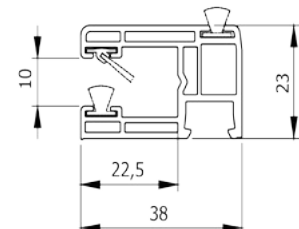
SR 60 - pvc



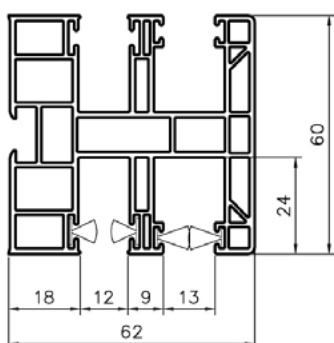
SRM 60 - pvc



SRM 23 - pvc



PPDM 60/12





www.vertex.pl

