

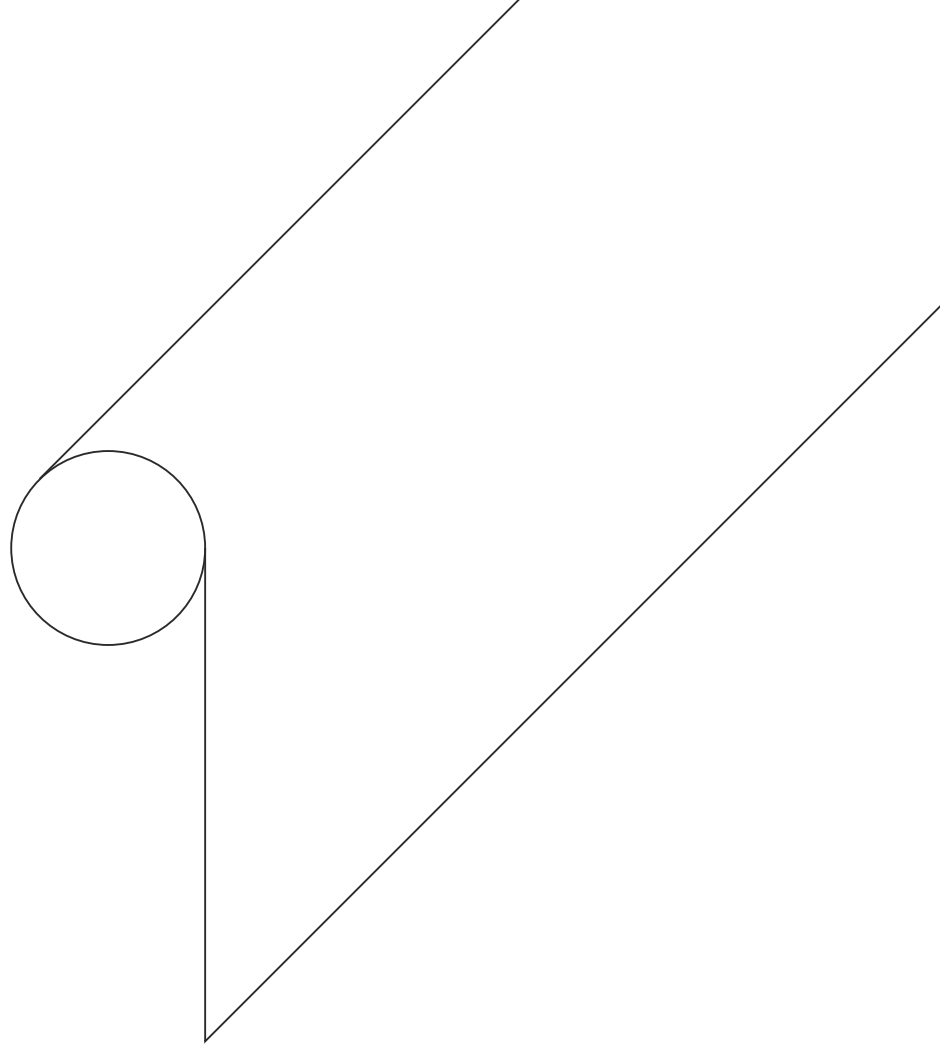


# Screen-roller blinds systems

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#### Cassette.

Cassettes are available in sizes: 85, 95, 100, 120, 125 mm and consist of three main elements:

- upper profile,
- bottom profile,
- side and front covers.

All elements of the cassette are made of aluminum and are covered with varnishes resistant to weather conditions.

#### Winding pipe.

Inside the cassette there is a pipe made of galvanized steel on which the material winds.

#### Electric control.

The electric motors are standardly placed inside the winding pipe. The drives are equipped with mechanical or electronic setting of the bottom and top limit positions.

We offer standard wired, radio and also radio drives in io-Homecontrol technology.



#### Guiding.

Depending on the selected system the material is guided with using of guides or a steel cables.

Aluminum guides are covered with varnishes resistant to weather conditions, while the cables are made of steel.

In the case of ZIP-guiding, the side guides are additionally equipped with a ZIP-insert made of PVC.

#### Screen-fabric.

"Screen" fabrics offered by Fart Produkt are high-quality fabrics made of plastic from the best European manufacturers. Are made with using of modern technologies, so they guarantee high resistance to weather conditions and long life.

#### Bottom beam.

The bottom beam is mounted in the bottom part of the fabric and thanks to special inserts guarantees its perfect tension. It is made of aluminum and is covered with varnishes resistant to weather conditions.

## Cassette.

The 90° cassette in a size of 125 mm is intended for flush mounting and consists of three main elements:

- upper profile,
- bottom profile,
- side and front covers.

All elements of the cassette are made of aluminum and are covered with varnishes resistant to weather conditions.

On the front side of the cassette there is placed a support for plaster simplifying the installation.

## Winding pipe.

Inside the cassette there is a pipe made of galvanized steel on which the material winds.

## Electric control.

The electric motors are standardly placed inside the winding pipe. The drives are equipped with mechanical or electronic setting of the bottom and top limit positions.

We offer standard wired, radio and also radio drives in io-Homecontrol technology.



## Guiding.

Fabric guiding with employment of ZIP system.

Aluminum guides are covered with varnishes resistant to weather conditions.

## Screen-fabric.

"Screen" fabrics offered by Fart Produkt are high-quality fabrics made of plastic from the best European manufacturers. Are made with using of modern technologies, so they guarantee high resistance to weather conditions and long life.

## Bottom beam.

The bottom beam is mounted in the bottom part of the fabric and thanks to special inserts guarantees its perfect tension. It is made of aluminum and is covered with varnishes resistant to weather conditions.

## Cassette.

The cassettes intended for installation on the window are available in 3 sizes: 230/170, 230/210, 255/244 mm and consist of three main elements:

- upper profile,
- bottom profile,
- side and front covers.

All elements of the cassette are made of PVC, and inside there is additional polystyrene insulation.

## Winding pipe.

Inside the cassette there is a pipe made of galvanized steel on which the material winds.

## Electric control.

The electric motors are standardly placed inside the winding pipe. The drives are equipped with mechanical or electronic setting of the bottom and top limit positions.

We offer standard wired, radio and also radio drives in io-Homecontrol technology.



## Guiding.

Depending on the selected system the material is guided with using of guides.

Aluminum guides are covered with varnishes resistant to weather conditions.

In the case of ZIP-guiding, the side guides are additionally equipped with a ZIP-insert made of PVC.

## Screen-fabric.

"Screen" fabrics offered by Fart Produkt are high-quality fabrics made of plastic from the best European manufacturers. Are made with using of modern technologies, so they guarantee high resistance to weather conditions and long life.

## Bottom beam.

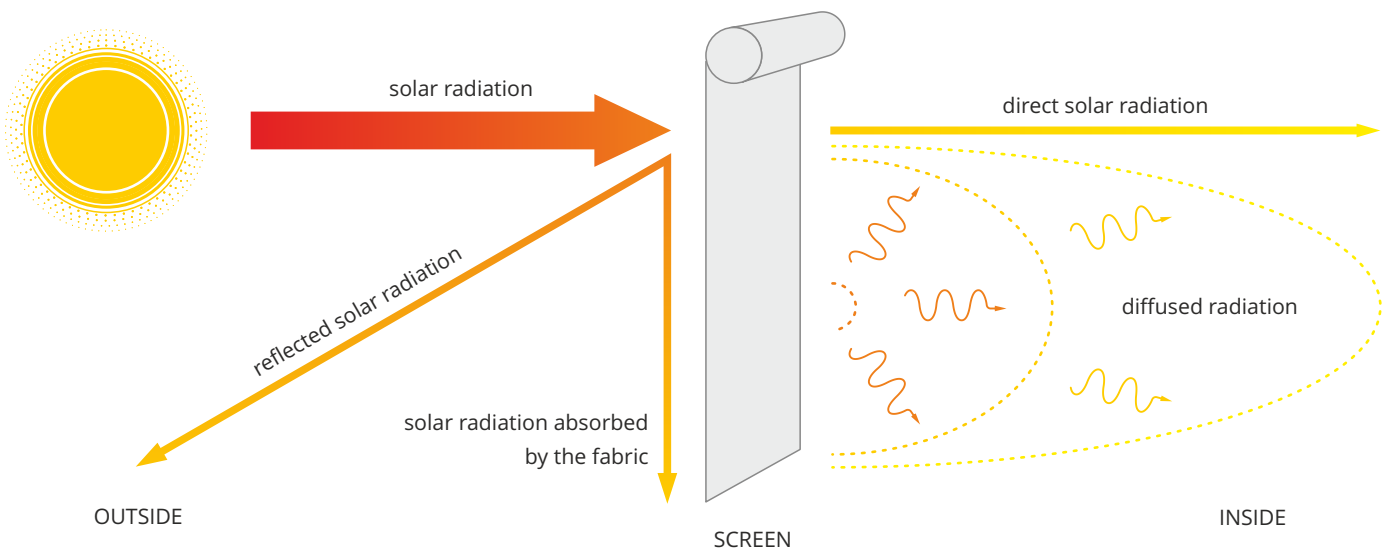
The bottom beam is mounted in the bottom part of the fabric and thanks to special inserts guarantees its perfect tension. It is made of aluminum and is covered with varnishes resistant to weather conditions.

## Product description

Screen shields are a system that connects aesthetics and protection against excessive sunlight and heating of rooms, it allows you to protect the interior from the sun without losing natural lighting.

Thanks to Screen shields, we are able to save on costs, e.g. air conditioning or artificial lighting, and by increasing the energy efficiency of the building, we can reduce operating expenses.

Screen covers will work both inside and outside the room. They will fit perfectly in apartments, houses, office buildings and other public buildings. Thanks to a wide range of fabrics and any color of the structure, Screen covers can be perfectly matched to many arrangements. Following the trend of increasing glazing dimensions, screen covers can be made up to 18 m<sup>2</sup> of area.



## Variants

Screen shields are available in three variants: premium, standard and basic, which differ in parameters to meet the needs of each user. They are available in three mounting options: surface-mounted (mounted on the façade or in the light of the window), flush-mounted and top-mounted. The system consists of four main elements: cassette, bottom beam, material and guides. There are 3 types of material guidance:

- Zip guidance - an innovative fabric fastening system that is integrated with the guides thanks to the Zip closure technology. This allows for perfect secure, tension and guidance of the fabric. The ZIP system allows for incredible stability and wind resistance. It can also act as a insect screen against insects (**Fig. 1**).
- Guidance with the bottom beam in the guides - the material does not enter into the guide, in which only the bottom beam is guided. There is free space between the material and the guide, thanks to which we obtain good air circulation. Recommended for use in places sheltered from strong wind (**Fig. 2**).
- Cable guidance - the material is attached to the bottom beam, which moves on cables without using of guides (**Fig. 3**). Cable guidance is only available in the premium system.



Fig. 1.



Fig. 2.



Fig. 3.

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## Properties of Fart Produkt Screen

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- an effective method to protect the interior against excessive heating and solar radiation while maintaining natural lighting,
- increasing the energetic efficiency of the building,
- cassette and guides made of extruded aluminum,
- resistance to weather conditions,
- maximum width of 6 meters,
- hidden fixings thanks to two-piece guides,
- high quality – long useful life,
- variety of structural solutions,
- the possibility of complete building-over of the side guide,
- a wide range of structure and fabrics colours,
- fashionable element on the building facade,
- work automation in cooperation with the weather automatics system.



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## Fabrics

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- high-quality fabrics made of plastics (glass fiber, PVC) from the best European producers guarantee resistance to weather conditions and a long useful life,
- fabrics from different production batches may slightly differ in tone,
- in the ZIP system, the material may be wavy in place of joining the zipper with the material. This effect may be intensified at low temperatures,
- using cable guidance, the fabric may be bended due to long-standing winding,
- **gabletop** - if the height and width of the blind with the selected material exceeds the width of the beam, it is necessary to perform a gabletop (joining 2 pieces of fabric), which is made on heat. This method results in a sharp standing out of the connection area. Doubling the material at the connection area causes uneven light transmission.

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## Construction colours

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Standard colours of the structure differ depending on the selected system, on special request we lacquer elements in any chosen colour from the RAL palette, but this involves an extended lead time and an additional charge.



System comparison		Premium	Standard	Standard nadstawny	Basic	Basic SPR
Maximum dimensions	Width	6000	4000	4000	3000	2000
	Height	5000	5000	5000	5000	2400
	Surface	18 m <sup>2</sup>	14,8 m <sup>2</sup>	14,8 m <sup>2</sup>	14,8 m <sup>2</sup>	4,8 m <sup>2</sup>
Cassettes sizes		85 / 95 / 125	85 / 100 / 120	170 / 210 / 240	85 / 100 / 120	85 / 100 / 120
Cassettes shapes		90° / 45°	90°	-	90°	90°
Material		Extruded aluminum	Extruded aluminum	PVC	Cold bent sheet	Extruded aluminum / Cold bent sheet
Guiding system	ZIP	✓	✓	✓	✓	
	Bottom beam in side guide	✓	✓	✓	✓	✓
	Steel cable guidance	✓				
Possibility of masking the mounting holes		✓				
Control options	Electric control	✓	✓	✓	✓	
	Manual control					✓



## Choice of the cassette height (in mm) to the size of the shield

	← width (mm)										
up to	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000
1000	85	85	85	85	85	125	125	125	125	125	125
1500	85	85	85	85	85	125	125	125	125	125	125
2000	95	95	95	95	95	125	125	125	125	125	125
2500	95	95	95	95	95	125	125	125	125	125	125
3000	95	95	95	95	95	125	125	125	125	125	125
3500	125	125	125	125	125	125	125	125			
4000	125	125	125	125	125	125	125				
4500	125	125	125	125	125	125					
5000	125	125	125	125	125						



## Choice of the winding shaft diameter (in mm) to the size of the shield

	← width (mm)										
up to	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000
1000	105	105	105	105	105	125	125	125	125	125	125
1500	105	105	105	105	105	125	125	125	125	125	125
2000	105	105	105	105	105	125	125	125	125	125	125
2500	105	105	105	105	105	125	125	125	125	125	125
3000	105	105	105	105	105	125	125	125	125	125	125
3500	125	125	125	125	125	125	125	125			
4000	125	125	125	125	125	125	125				
4500	125	125	125	125	125	125					
5000	125	125	125	125	125						



## System weight in kg (standard bottom beam)

	← width (mm)										
up to	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000
1000	12	15	19	22	26	33	36	41	44	-	-
1500	13	16	20	24	27	35	38	43	46	-	-
2000	14	17	22	25	29	37	40	45	49	-	-
2500	15	19	23	27	31	39	42	48	51	-	-
3000	16	20	25	26	33	41	44	50	54	-	-
3500	18	22	26	28	34	43	46	52			
4000	19	24	27	32	36	44	48				
4500	21	25	29	33	38	46					
5000	22	26	30	35	39						



## System weight in kg (reinforced bottom beam)

	← width (mm)										
up to	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000
1000	15	19	19	22	26	33	36	41	44	52	56
1500	16	20	20	24	27	35	38	43	46	55	59
2000	17	21	22	25	29	37	40	45	49	58	62
2500	18	23	23	27	31	39	42	48	51	61	64
3000	19	24	25	26	33	41	44	50	54	63	67
3500	21	26	26	28	34	43	46	52			
4000	22	28	27	32	36	44	48				
4500	24	29	29	33	38	46					
5000	25	30	30	35	39						



## Motor power [Nm] (standard bottom beam)

	← width (mm)										
up to	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000
1000	6	6	6	8	8	10	10	15	15	-	-
1500	6	6	6	8	8	10	15	15	15	-	-
2000	6	6	6	8	10	10	15	15	15	-	-
2500	6	6	6	8	10	15	15	15	20	-	-
3000	6	6	8	10	15	15	15	15	20	-	-
3500	6	6	8	10	15	15	15	20			
4000	6	6	8	10	15	15	20				
4500	6	6	8	10	15	20					
5000	6	6	8	10	15						



## Motor power [Nm] (reinforced bottom beam)

	← width (mm)										
up to	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000
1000	6	6	6	8	8	10	10	15	15	15	15
1500	6	6	6	8	8	10	15	15	15	15	20
2000	6	6	6	8	10	10	15	15	15	20	20
2500	6	6	6	8	10	15	15	15	20	20	20
3000	6	8	8	10	15	15	15	15	20	20	20
3500	6	8	8	10	15	15	15	20			
4000	6	8	8	10	15	15	20				
4500	6	8	8	10	15	20					
5000	6	8	8	10	15						



Choice of the winding shaft diameter (in mm) to the size of the shield

up to	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000
1000	63	63	63	63	63	78	85	85	85	100	100
1500	63	63	63	63	63	78	85	85	85	100	100
2000	63	63	63	63	63	78	85	85	85	100	100
2500	63	63	63	63	63	78	85	85	85	100	100
3000	63	63	63	63	63	78	85	85	85	100	100
3500	78	78	78	78	78	78	85	85			
4000	78	78	78	78	78	78	85				
4500	78	78	78	78	78	78					
5000	78	78	78	78	78						

height (mm)

width (mm)



Choice of the cassette height (in mm) to the size of the shield

up to	1000	1500	2000	2500	3000	3200	3400	3600	3800	4000
1000	85	85	85	85	85	100	100	100	100	100
1700	85	85	85	85	85	100	100	100	100	100
2000	100	100	100	100	100	100	100	100	100	100
2200	100	100	100	100	100	100	100	100	100	100
2500	100	100	100	100	100	120	120	120	120	120
4000	100	100	100	100	100	120	120	120		
4200	100	100	100	100	100	120	120			
4500	100	100	100	100	100	120				
4700	100	100	100	100	100					
5000	100	100	100	100	100					

height (mm)

width (mm)



Motor power [Nm] (reinforced bottom beam)

up to	1000	1500	2000	2500	3000	3500	4000
1000	6	6	6	10	10	10	10
1400	6	6	6	10	10	10	10
1800	6	6	6	10	10	10	15
2200	6	6	6	10	10	10	15
2600	6	10	10	10	10	10	15
3000	6	10	10	10	10	15	15
3400	6	10	10	10	15	15	15
3800	6	10	10	10	15	15	15
4200	6	10	10	10	15	15	
4600	6	10	10	10	15		
5000	6	10	10	10	15		

height (mm)

width (mm)



System weight in kg (reinforced bottom beam)

up to	1000	1500	2000	2500	3000	3500	4000
1000	15	19	19	22	26	33	36
1400	16	20	20	24	27	35	38
1800	17	21	22	25	29	37	40
2200	18	23	23	27	31	39	42
2600	19	24	25	26	33	41	44
3000	21	26	26	28	34	43	46
3400	22	28	27	32	36	44	48
3800	23	29	32	32	38	46	50
4200	24	31	33	33	39	48	
4600	25	32	35	35	41		
5000	27	34	37	36	43		

height (mm)

width (mm)



Choice of the winding shaft diameter (in mm) to the size of the shield

up to	1000	1500	2000	2500	3000	3500	4000
1000	63	63	63	63	63	78	78
1400	63	63	63	63	63	78	78
1800	63	63	63	63	63	78	78
2200	63	63	63	63	63	78	78
2600	63	63	63	63	63	78	78
3000	63	63	63	63	63	78	78
3400	63	63	63	63	63	78	78
3800	63	63	63	63	63	78	78
4200	63	63	63	63	63	78	
4600	63	63	63	63	63		
5000	63	63	63	63	63		

height (mm)

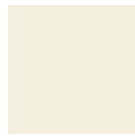
width (mm)



Construction colours – **Premium System**



**WHITE**  
(RAL 9016)



**CREAMY**  
(RAL 9001)



**SILVER**  
(RAL 9006)



**BROWN**  
(RAL 8014)

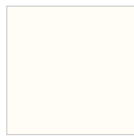


**ANTHRACITE**  
(RAL 7016)



**BLACK GRAY**  
(RAL 7021)

Construction colours – **Basic System**



**WHITE**  
(RAL 9016)



**SILVER**  
(RAL 9006)



**BROWN**  
(RAL 8014)



**ANTHRACITE**  
(RAL 7016)

Varnishing

For an additional fee, it is possible to varnish in a selected RAL colour (except for the top-mounted box).



Colour of the ZIP-insert

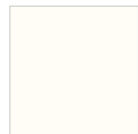
**ATTENTION!** In systems with ZIP guidance, the ZIP insert placed inside the guide is always black.

Construction colours – **Standard system** – surface mounted boxes



Construction colours – **Standard system** - top-mounted box, on the window sash

Colour of standard box:



**WHITE**  
(RAL 9016)

Colour of the box (renolite veneers):



**ANTHRACITE**  
(701605)



**GOLDEN OAK**  
(RAL 9016)

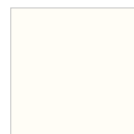


**WALNUT**  
(RAL 2178007)



**MAHOGANY**  
(RAL 2065021)

Colour of the side guides:



**WHITE**  
(RAL 9016)



**DARK BROWN**  
(RAL 8019)



**ANTHRACITE**  
(RAL 7016)

Varnishing

For an additional fee, it is possible to varnish in a selected RAL colour (except for the top-mounted box).



Colour of the ZIP-insert

**ATTENTION!** In systems with ZIP guidance, the ZIP insert placed inside the guide is always black.

## EXT 4003

Technical specification		Unit of measure		Norms	Results
composition				PVC 70 % / PES 30 %	
opennes factor		%			3%
weight		g/m <sup>2</sup>		EN ISO 2286-2	540
thinckness		mm			0,67
width		cm			177 - 267
standard roll length		mb			2,5 - 3,0
fire classification				UNE-EN 13773:2003	Classe 1
				NFPA 701	
				DIN 4102	Class B1
				Imo Resolution MSC.307 (88)	

- high-quality fabrics made of plastics (glass fiber, PVC) from the best European producers guarantee resistance to weather conditions and a long usefull life.
- fabrics from different production batches may slightly differ in tone.
- in the ZIP system, the material may be wavy in place of joining the zipper with the material. This effect may be intensified at low temperatures.
- using cable guidance, the fabric may be bended due to long-standing winding.
- **gabletop** – if the height and width of the blind with the selected material exceeds the width of the beam, it is necessary to perform a gabletop (joining 2 pieces of fabric), which is made on heat. This method results in a sharp standing out of the connection area. Doubling the material at the connection area causes uneven light transmission.

EXT 4003 Europejski Standard EN 14500 G-value calculations according to EN 13363-1+A1: 2007		Energy properties related to insulation				Visual properties	
		Fabric			Fabric + glassing G-factor = total transmittance of solar energy		
No.	Colour	As Absorption of solar radiation %	Rs Reflectance of solar radiation %	Ts Transmittance of solar radiation %	GV  OUTDOOR INSTALLATION Glassing D Gv = 0,32 - U = 1,1	Tv Transmittance of visible light %	Tuv UV transmittance %
4003-00	ivory	15	67	18	0,25	15	6
4003-01	chalk	13	66	21	0,25	19	3
4003-02	chalk beige cream	24	60	16	0,26	13	3
4003-03	chalk soft grey	40	52	8	0,26	6	3
4003-05	charcoal iron grey	80	14	6	0,30	6	6
4003-06	ebony	93	4	3	0,31	3	3
4003-08	soft grey	64	31	5	0,28	4	4
4003-09	grey sand	32	54	14	0,26	9	3
4003-10	charcoal dark bronze	89	7	4	0,30	4	4
4003-11	beige pearl gray	48	42	10	0,27	7	3



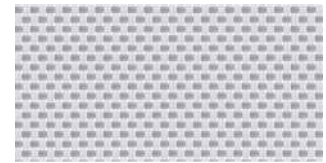
EXT 4003  
4003-00 ivory



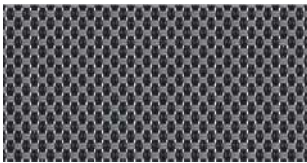
EXT 4003  
4003-01 chalk



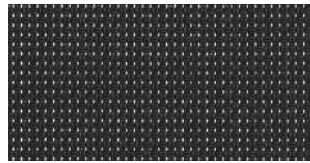
EXT 4003  
4003-02 chalk beige cream



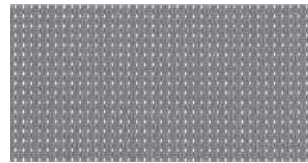
EXT 4003  
4003-03 chalk soft grey



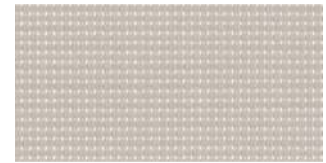
EXT 4003  
4003-05 charcoal iron grey



EXT 4003  
4003-06 ebony



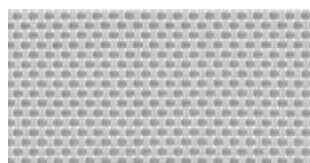
EXT 4003  
4003-08 soft grey



EXT 4003  
4003-09 grey sand



EXT 4003  
4003-10 charcoal dark bronze



EXT 4003  
4003-11 beige pearl gray

SERGE 600

Technical specification		Unit of measure		Norms	Results
composition					fiberglass 42% PVC 58%
openness factor		%		NBN EN 410	5%
weight		g/m <sup>2</sup>		NF EN 12127	525
thickness		mm		ISO 2286-3	0,74
density		yarn/cm	lengthwise (warp)	ISO 7211/2	18
			widthwise (weft)		14
colour resistance to artificial light				ISO 105 B02	>7
colour resistance to artificial weather conditions				ISO 105 B04	>7
tearing toughness	originally	daN	lengthwise (warp)	ISO 4674-1 method 2	8,5
			widthwise (weft)		7,5
elongation at break	originally	%	lengthwise (warp)	ISO 1421	3,1
			widthwise (weft)		2,75
tensile durability	originally	daN/5 cm	lengthwise (warp)	ISO 1421	260
			widthwise (weft)		225
elongation at break	after colour resistance to artificial weather conditions	%	lengthwise (warp)	ISO 1421	3,5
			widthwise (weft)		2,8
tensile durability	after colour resistance to artificial weather conditions	daN/5 cm	lengthwise (warp)	ISO 1421	240
			widthwise (weft)		225
elongation at break	after colour resistance to artificial light	%	lengthwise (warp)	ISO 1421	4
			widthwise (weft)		2,9
tensile durability	after colour resistance to artificial light	daN/5 cm	lengthwise (warp)	ISO 1421	240
			widthwise (weft)		220
tearing toughness	after the climatic chamber -30°C	daN	lengthwise (warp)	ISO 4674-1 method 2	7,8
			widthwise (weft)		7,5
elongation at break	after the climatic chamber -30°C	%	lengthwise (warp)	ISO 1421	3
			widthwise (weft)		2,5
tensile durability	after the climatic chamber -30°C	daN/5 cm	lengthwise (warp)	ISO 1421	225
			widthwise (weft)		200
tearing toughness	after the climatic chamber +70°C	daN	lengthwise (warp)	ISO 4674-1 method 2	8,2
			widthwise (weft)		7,2
elongation at break	after the climatic chamber +70°C	%	lengthwise (warp)	ISO 1421	2,85
			widthwise (weft)		2,5
tensile durability	after the climatic chamber +70°C	daN/5 cm	lengthwise (warp)	ISO 1421	180
			widthwise (weft)		185
air permeability		l/m <sup>2</sup> .s		ISO 9237	580
fire classification	European Union			UNE-EN 13501-1:2007	C-s3,d0
	France			NF P92-503	M1
	Italy			UNI 9177	Class 1
	Germany			DIN 4102	B1
	Great Britain			BS 5867	C
	USA			NFPA 701	FR

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Serge 600 European Norm EN 14501 G-value calculations according to EN 13363-1+A1: 2007			Energy properties related to insulation										Visual properties			
			Fabric			Fabric + glassing						G-factor = total transmittance of solar energy			Tv Transmittance of visible light %	Tuv UV transmittance %
						EXTERNAL			INTERNAL							
			As Absorption of solar radiation %	Rs Reflectance of solar radiation %	Ts Transmittance of solar radiation %	GV Glassing A Gv = 0,85 - U = 5,8	GV Glassing B Gv = 0,76 - U = 2,9	GV Glassing C Gv = 0,59 - U = 1,2	GV Glassing D Gv = 0,32 - U = 1,1	GV Glassing A Gv = 0,85 - U = 5,8	GV Glassing B Gv = 0,76 - U = 2,9					
No.	Colour	front	back	front	back	front	back	front	back	front	back					
002002	white	front	13,2	65,9	21	0,22	0,2	0,15	0,1	0,36	0,37	0,36	0,25	21,2	4,3	
	white	back	12,7	66,3	21	0,22	0,19	0,15	0,1	0,35	0,37	0,36	0,25	21,2	4,3	
008008	linen	front	32,5	52,5	14,9	0,21	0,17	0,13	0,09	0,43	0,43	0,4	0,26	12,9	5,8	
	linen	back	32,4	52,7	14,9	0,2	0,17	0,13	0,09	0,42	0,43	0,4	0,26	12,9	5,8	
002007	white	front	40,9	47,6	11,5	0,19	0,16	0,11	0,08	0,45	0,46	0,42	0,27	10,7	6	
	pearl grey	back	33,2	55,3	11,5	0,18	0,15	0,11	0,08	0,4	0,42	0,39	0,26	10,7	6	
007007	pearl grey	front	51,7	38,3	10,1	0,2	0,16	0,11	0,09	0,5	0,5	0,44	0,27	8,4	6	
	pearl grey	back	50,5	39,4	10,1	0,2	0,16	0,11	0,09	0,5	0,5	0,44	0,27	8,4	6	
001002	grey	front	56,2	37,2	6,7	0,18	0,14	0,09	0,08	0,5	0,51	0,45	0,28	6,6	5,5	
	white	back	66,4	26,9	6,7	0,2	0,16	0,1	0,08	0,56	0,56	0,48	0,28	6,6	5,5	
001001	grey	front	81,3	15,1	3,5	0,2	0,16	0,1	0,08	0,63	0,62	0,52	0,3	3,6	3,5	
	grey	back	81,4	15,1	3,5	0,2	0,16	0,1	0,08	0,63	0,62	0,5	0,3	3,6	3,5	
010010	charcoal	front	91,4	5	3,6	0,23	0,17	0,1	0,09	0,69	0,67	0,55	0,3	3,6	3,6	
	charcoal	back	91,6	4,8	3,6	0,23	0,17	0,1	0,09	0,69	0,67	0,55	0,3	3,6	3,6	
001010	grey	front	86,5	9,9	3,6	0,22	0,16	0,1	0,09	0,66	0,64	0,54	0,3	3,6	3,4	
	charcoal	back	83,8	12,6	3,6	0,21	0,16	0,1	0,08	0,64	0,63	0,53	0,3	3,6	3,4	

face avant | front  
das Vorderteil | front



Serge 600  
002002 white/white

face arrière | back  
das Hinterteil | back

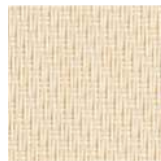


face avant | front  
das Vorderteil | front



Serge 600  
008008 linen/linen

face arrière | back  
das Hinterteil | back



face avant | front  
das Vorderteil | front



Serge 600  
002007 white/pearl grey

face arrière | back  
das Hinterteil | back



face avant | front  
das Vorderteil | front



Serge 600  
007007 pearl grey/pearl grey

face arrière | back  
das Hinterteil | back



face avant | front  
das Vorderteil | front



Serge 600  
001002 grey/white

face arrière | back  
das Hinterteil | back



face avant | front  
das Vorderteil | front



Serge 600  
001001 grey/grey

face arrière | back  
das Hinterteil | back



face avant | front  
das Vorderteil | front

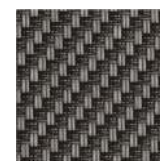


Serge 600  
010010 charcoal/charcoal

face arrière | back  
das Hinterteil | back



face avant | front  
das Vorderteil | front



Serge 600  
001010 grey/charcoal

face arrière | back  
das Hinterteil | back

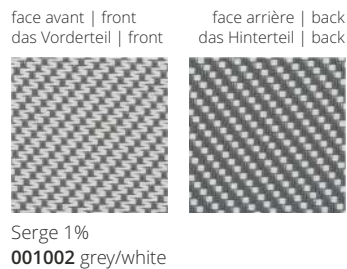
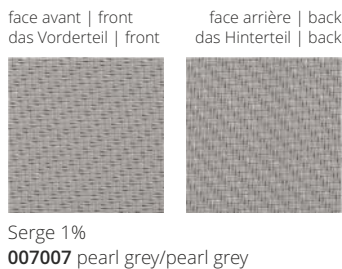
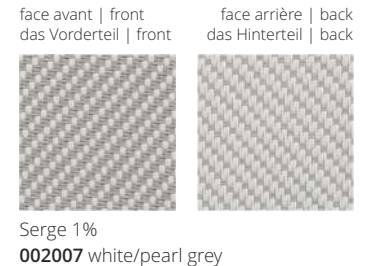


**SERGE 1%**

Technical specification		Unit of measure		Norms	Results
composition					fiberglass 42% PVC 58%
openness factor		%		NBN EN 410	1%
weight		g/m <sup>2</sup>		NF EN 12127	638
thickness		mm		ISO 2286-3	0,78
density		yarn/cm	lengthwise (warp)	ISO 7211/2	20
			widthwise (weft)		18
colour resistance to artificial light				ISO 105 B02	>7
colour resistance to artificial weather conditions				ISO 105 B04	>7
tearing toughness	originally	daN	lengthwise (warp)	ISO 4674-1 method 2	5,9
			widthwise (weft)		6,2
elongation at break	originally	%	lengthwise (warp)	ISO 1421	4,7
			widthwise (weft)		3,8
tensile durability	originally	daN/5 cm	lengthwise (warp)	ISO 1421	321
			widthwise (weft)		277
elongation at break	after colour resistance to artificial weather conditions	%	lengthwise (warp)	ISO 1421	4,7
			widthwise (weft)		3,3
tensile durability	after colour resistance to artificial weather conditions	daN	lengthwise (warp)	ISO 1421	225
			widthwise (weft)		216
tearing toughness	after the climatic chamber -30°C	daN	lengthwise (warp)	ISO 4674-1 method 2	6
			widthwise (weft)		6,2
elongation at break	after the climatic chamber -30°C	%	lengthwise (warp)	ISO 1421	4,8
			widthwise (weft)		3,9
tensile durability	after the climatic chamber -30°C	daN/5 cm	lengthwise (warp)	ISO 1421	236
			widthwise (weft)		279
tearing toughness	after the climatic chamber +70°C	daN	lengthwise (warp)	ISO 4674-1 method 2	5,3
			widthwise (weft)		5,8
elongation at break	after the climatic chamber +70°C	%	lengthwise (warp)	ISO 1421	5
			widthwise (weft)		3,7
tensile durability	after the climatic chamber +70°C	daN/5 cm	lengthwise (warp)	ISO 1421	251
			widthwise (weft)		266
air permeability		l/m <sup>2</sup> .s		ISO 9237	497
fire classification	European Union			UNE-EN 13501-1:2007	C-s3,d0
	France			NF P92-503	M1
	Italy			UNI 9177	Class 1
	Germany			DIN 4102	B1
	UK			BS 5867	C
	USA			NFPA 701	FR

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Serge 1% European Norm EN 14501 G-value calculations according to EN 13363-1+A1: 2007			Energy properties related to insulation										Visual properties				
			Fabric			Fabric + glassing											
						EXTERNAL					INTERNAL						
			G-factor = total transmittance of solar energy												Tv Transmittance of visible light %	Tuv UV transmittance %	
As Absorption of solar radiation %	Rs Reflectance of solar radiation %	Ts Transmittance of solar radiation %	GV Glassing A Gv = 0,85 - U = 5,8	GV Glassing B Gv = 0,76 - U = 2,9	GV Glassing C Gv = 0,59 - U = 1,2	GV Glassing D Gv = 0,32 - U = 1,1	GV Glassing A Gv = 0,85 - U = 5,8	GV Glassing B Gv = 0,76 - U = 2,9	GV Glassing C Gv = 0,59 - U = 1,2	GV Glassing D Gv = 0,32 - U = 1,1							
No.	Colour																
002002	white	front	15,9	71,3	12,8	0,14	0,12	0,09	0,06	0,3	0,33	0,34	0,24	12,9	2,5		
	white	back	15,9	71,3	12,8	0,14	0,12	0,09	0,06	0,3	0,33	0,34	0,24	12,9	2,5		
008008	linen	front	39,9	54,2	5,9	0,11	0,09	0,06	0,04	0,38	0,4	0,39	0,26	3,7	1,6		
	linen	back	39,9	54,2	5,9	0,11	0,09	0,06	0,04	0,38	0,4	0,39	0,26	3,7	1,6		
002007	white	front	45,9	48,8	5,3	0,15	0,12	0,08	0,06	0,43	0,45	0,41	0,26	4,3	1,3		
	pearl grey	back	36,2	58,5	5,3	0,15	0,12	0,08	0,06	0,43	0,45	0,41	0,26	4,3	1,3		
007007	pearl grey	front	60,3	36,9	2,8	0,11	0,08	0,05	0,04	0,46	0,48	0,44	0,27	2,1	1,6		
	pearl grey	back	60,3	36,9	2,8	0,11	0,08	0,05	0,04	0,46	0,48	0,44	0,27	2,1	1,6		
001002	grey	front	53	44,8	2,2	0,13	0,1	0,08	0,05	0,45	0,47	0,42	0,27	2	1,1		
	white	back	66,6	31,2	2,2	0,13	0,1	0,08	0,05	0,45	0,47	0,42	0,27	2	1,1		
001001	grey	front	80,2	17,4	2,4	0,13	0,1	0,06	0,05	0,56	0,57	0,5	0,29	2,2	2,1		
	grey	back	80,2	17,4	2,4	0,13	0,1	0,06	0,05	0,56	0,57	0,5	0,29	2,2	2,1		
010010	charcoal	front	93	5,9	1,1	0,14	0,1	0,06	0,05	0,61	0,63	0,54	0,3	1,1	1,1		
	charcoal	back	93	5,9	1,1	0,14	0,1	0,06	0,05	0,61	0,63	0,54	0,3	1,1	1,1		
001010	grey	front	88,3	10,5	1,2	0,2	0,15	0,09	0,08	0,65	0,64	0,53	0,3	1,2	1,2		
	charcoal	back	84,8	14	1,2	0,2	0,15	0,09	0,08	0,65	0,64	0,53	0,3	1,2	1,2		

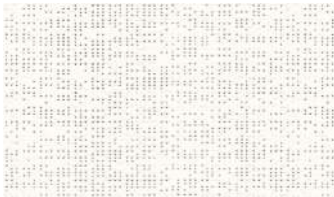


SOLTIS 92

Technical specification		Unit of measure		Norms	Results
openness factor		%			4%
weight		g/m <sup>2</sup>		EN ISO 2286-2	420
thickness		mm			0,45
width		cm			177 - 267
standard roll length		mb	roll 177 cm wide		50
			roll 267 cm wide		40
tensile durability		daN/5 cm	lengthwise (warp)	ISO 1421	310
			widthwise (weft)		210
tearing toughness		daN	lengthwise (warp)	DIN 53.363	45
			widthwise (weft)		20
fire classification			EN 13501-1		B-s2,d0
			NFP 92-507		M1
			DIN 4102-1		B1
			BS 7837		B1
			BS 5867		B1
			ONORM A 3800-1		Schwerbrennbar Q1-Tr1
			UNI 9177-87		Classe 1
			UNE 23.727-90		M1
			VKF 5.3/SN 198898		M1
			AS/NZS		1530.3
			G1/GOST 30244-94		1530.3
			NFPA 701		Method 1
			CSFM T19		Method 1
			ASTM E84		Class A
			AS/NZS 3837		Group 1
		EN 13773		Class 1	
		CAN/ULC-S109		Class 1	

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Soltis 92			Energy properties related to insulation					Visual properties	
			Fabric			Fabric + glassing G-factor = total transmittance of solar energy			
No.	Colour		As Absorption of solar radiation %	Rs Reflectance of solar radiation %	Ts Transmittance of solar radiation %	GV Glassing D Gv = 0,32 - U = 1,1		Tv Transmittance of visible light %	Tuv UV transmittance %
						EXTERNAL	INTERNAL		
92-2044	white		10	70	20	0,07	0,11	19	5
92-2171	boulder		49	43	8	0,04	0,20	6	4
92-2048	alu/alu		46	46	8	0,04	0,18	8	3
92-2068	alu	front	62	34	4	0,03	0,22	4	5
	anthracite	back	88	8	4	0,04	0,28	4	5
92-2045	beaten-metal		61	35	4	0,03	0,22	4	3
92-2167	concrete		75	19	6	0,04	0,26	5	3
92-2047	anthracite		87	8	5	0,04	0,28	5	4
92-2053	black		91	6	3	0,03	0,29	3	3



Soltis 92  
92-2044 white

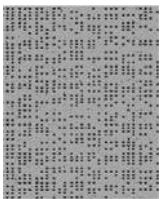


Soltis 92  
92-2171 boulder



Soltis 92  
92-2048 alu/alu

face avant | front  
das Vorderteil | front



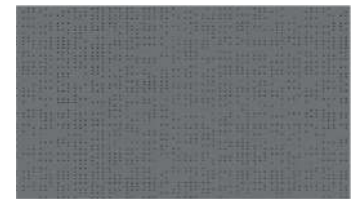
Soltis 92  
92-2068 alu/anthracite



face arrière | back  
das Hinterteil | back



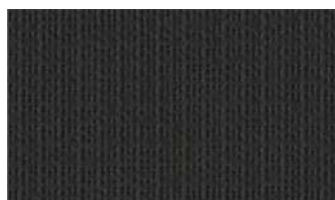
Soltis 92  
92-2045 beaten-metal



Soltis 92  
92-2167 concrete



Soltis 92  
92-2047 anthracite



Soltis 92  
92-2053 black

SOLTIS 86

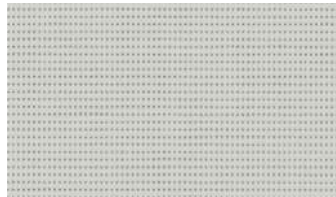
Technical specification		Unit of measure		Norms	Results
openness factor		%			14%
weight		g/m <sup>2</sup>		EN ISO 2286-2	380
thickness		mm			0,45
width		cm			177 - 267
standard roll length		mb	roll 177 cm wide		50
			roll 267 cm wide		40
tensile durability		daN/5 cm	lengthwise (warp)	ISO 1421	230
			widthwise (weft)		160
tearing toughness		daN	lengthwise (warp)	DIN 53.363	45
			widthwise (weft)		20
fire classification			EN 13501-1		B-s2,d0
			NFP 92-507		M1
			DIN 4102-1		B1
			BS 7837		B1
			BS 5867		B1
			ONORM A 3800-1		Schwerbrennbar Q1-Tr1
			UNI 9177-87		Classe 1
			UNE 23.727-90		M1
			SN 198898		VKF 5.3/SN 198898
			AS/NZ		1530.3
			GOST 30244-9		G1
			NFPA 701		Method 1
			CSFM T19		Method 1
			ASTM E84		Class A
			AS/NZS 3837		Group 1
		EN 13773		Class 1	
		CAN/ULC-S109		Class 1	

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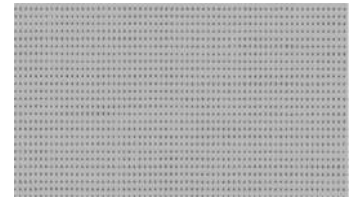
Soltis 86		Energy properties related to insolation						Visual properties	
		Fabric			Fabric + glassing G-factor = total transmittance of solar energy				
No.	Colour	As	Rs	Ts	GV		Tv Transmittance of visible light %	Tuv UV transmittance %	
		Absorption of solar radiation %	Reflectance of solar radiation %	Transmittance of solar radiation %	Glassing D Gv = 0,32 - U = 1,1				
					EXTERNAL	INTERNAL			
86-2044	white	12	59	29	0,11	0,15	28	15	
86-2171	boulder	42	36	22	0,08	0,21	20	16	
86-2048	alu/alu	42	39	19	0,09	0,20	19	15	
86-2068	alu	52	31	17	0,08	0,23	17	17	
	anthracite	76	7	17	0,09	0,28	17	17	
86-2045	beaten-metal	55	29	16	0,08	0,23	16	16	
86-2167	concrete	69	14	17	0,07	0,26	17	15	
86-2047	anthracite	76	7	17	0,07	0,28	17	16	
86-2053	black	81	5	14	0,07	0,29	14	14	



Soltis 86  
86-2044 white



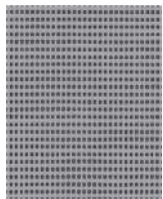
Soltis 86  
86-2171 boulder



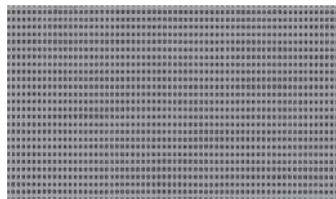
Soltis 86  
86-2048 alu/alu

face avant | front  
das Vorderteil | front

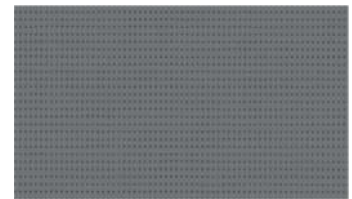
face arrière | back  
das Hinterteil | back



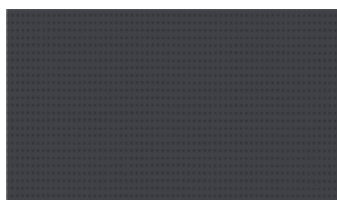
Soltis 86  
86-2068 alu/anthracite



Soltis 86  
86-2045 beaten-metal



Soltis 86  
86-2167 concrete



Soltis 86  
86-2047 anthracite



Soltis 86  
86-2053 black

## Lunar BO

Technical specification		Unit of measure		Norms	Results
composition				fiberglass 33% / PVC 47% / laminate PVC 20%	
openness factor		%		NBN EN 410	0%
weight		g/m <sup>2</sup>		NF EN 12127	678
thickness		mm		ISO 2286-3	0,74
density		yarn/cm	lengthwise (warp)	ISO 7211/2	18
			widthwise (weft)		14
colour resistance to artificial light				ISO 105 B02	>7
tearing toughness	originally	daN	lengthwise (warp)	ISO 4674-1 method 2	8,5
			widthwise (weft)		9,0
elongation at break	originally	%	lengthwise (warp)	ISO 1421	6,4
			widthwise (weft)		7,3
tensile durability	originally	daN/5 cm	lengthwise (warp)	ISO 1421	224,2
			widthwise (weft)		176,6
elongation at break	after colour resistance to artificial weather conditions	%	lengthwise (warp)	ISO 1421	6,5
			widthwise (weft)		7,0
tensile durability	after colour resistance to artificial weather conditions	daN/5 cm	lengthwise (warp)	ISO 1421	214,2
			widthwise (weft)		168,0
tearing toughness	after the climatic chamber -30°C	daN	lengthwise (warp)	ISO 4674-1 method 2	8,4
			widthwise (weft)		9,3
elongation at break	after the climatic chamber -30°C	%	lengthwise (warp)	ISO 1421	6,2
			widthwise (weft)		6,9
tensile durability	after the climatic chamber -30°C	daN/5 cm	lengthwise (warp)	ISO 1421	222,4
			widthwise (weft)		162,6
tearing toughness	after the climatic chamber +70°C	daN	lengthwise (warp)	ISO 4674-1 method 2	8,8
			widthwise (weft)		9,3
elongation at break	after the climatic chamber +70°C	%	lengthwise (warp)	ISO 1421	6,4
			widthwise (weft)		6,7
tensile durability	after the climatic chamber +70°C	daN/5 cm	lengthwise (warp)	ISO 1421	213,9
			widthwise (weft)		161,6
air permeability		l/m <sup>2</sup> .s		ISO 9237	0,0 l/m <sup>2</sup> .s
fire classification	European Union			UNE-EN 13501-1:2007	
	France			NF P92-503	M1
	Italy			UNI 9177	Classe 1
	Germany			DIN 4102	
	Great Britain			BS 5867	
	USA			NFPA 701	

- high-quality fabrics made of plastics (glass fiber, PVC) from the best European producers guarantee resistance to weather conditions and a long usefull life.
- fabrics from different production batches may slightly differ in tone.
- in the ZIP system, the material may be wavy in place of joining the zipper with the material. This effect may be intensified at low temperatures.
- using cable guidance, the fabric may be bended due to long-standing winding.
- **gabletop** – if the height and width of the blind with the selected material exceeds the width of the beam, it is necessary to perform a gabletop (joining 2 pieces of fabric), which is made on heat. This method results in a sharp standing out of the connection area. Doubling the material at the connection area causes uneven light transmission.



Lunar BO European Norm EN 14501 G-value calculations according to EN 13363-1+A1: 2007			Energy properties related to insulation										Visual properties				
			Fabric			Fabric + glassing											
						OUTDOOR INSTALLATION					INDOOR INSTALLATION						
						G-factor = total transmittance of solar energy											
No.	Colour		As Absorption of solar radiation %	Rs Reflectance of solar radiation %	Ts Transmittance of solar radiation %	GV Glassing A Gv = 0,85 - U = 5,8	GV Glassing B Gv = 0,76 - U = 2,9	GV Glassing C Gv = 0,59 - U = 1,2	GV Glassing D Gv = 0,32 - U = 1,1	GV Glassing A Gv = 0,85 - U = 5,8	GV Glassing B Gv = 0,76 - U = 2,9	GV Glassing C Gv = 0,59 - U = 1,2	GV Glassing D Gv = 0,32 - U = 1,1	Tv Transmittance of visible light %	Tuv UV transmittance %		
002002	white	front	31,2	68,8	0,0	0,04	0,03	0,02	0,02	0,29	0,33	0,34	0,24	0,0	0,0		
	white	back	66,3	33,7	0,0	0,09	0,07	0,03	0,03	0,47	0,50	0,45	0,27	0,0	0,0		
007007	pearl grey	front	64,5	35,5	0,0	0,09	0,06	0,03	0,03	0,46	0,49	0,44	0,27	0,0	0,0		
	pearl grey	back	66,0	34,0	0,0	0,09	0,06	0,03	0,03	0,47	0,49	0,45	0,27	0,0	0,0		
001001	grey	front	82,8	17,2	0,0	0,12	0,08	0,04	0,04	0,55	0,57	0,50	0,29	0,0	0,0		
	grey	back	66,9	33,1	0,0	0,09	0,07	0,04	0,03	0,47	0,50	0,45	0,27	0,0	0,0		
001010	grey	front	89,0	11,0	0,0	0,13	0,09	0,05	0,04	0,59	0,60	0,52	0,29	0,0	0,0		
	charcoal	back	66,3	33,7	0,0	0,09	0,07	0,04	0,03	0,47	0,50	0,45	0,27	0,0	0,0		
010010	charcoal	front	93,8	6,2	0,0	0,13	0,09	0,05	0,05	0,61	0,63	0,53	0,30	0,0	0,0		
	charcoal	back	66,6	33,4	0,0	0,09	0,07	0,04	0,03	0,47	0,50	0,45	0,27	0,0	0,0		

face avant | front  
das Vorderteil | front



Serge 600 BO Lunar  
002002 white/white

face arrière | back  
das Hinterteil | back

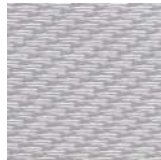


face avant | front  
das Vorderteil | front

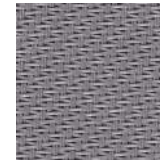


Serge 600 BO Lunar  
007007 pearl grey/pearl grey

face arrière | back  
das Hinterteil | back



face avant | front  
das Vorderteil | front

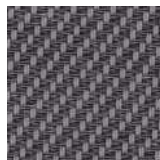


Serge 600 BO Lunar  
001001 grey/grey

face arrière | back  
das Hinterteil | back



face avant | front  
das Vorderteil | front

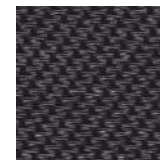


Serge 600 BO Lunar  
001010 grey/charcoal

face arrière | back  
das Hinterteil | back



face avant | front  
das Vorderteil | front



Serge 600 BO Lunar  
010010 charcoal/charcoal

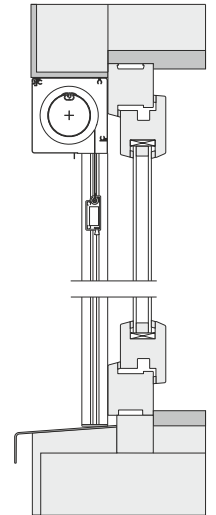
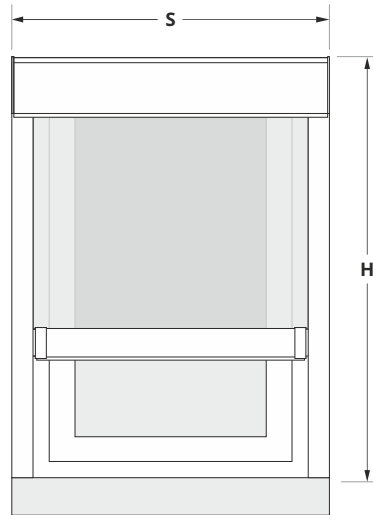
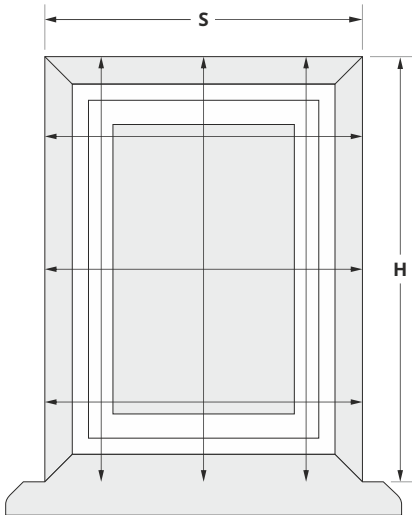
face arrière | back  
das Hinterteil | back



Dimensioning of Screen-blind – Surface mounting in a recess.

By installation in a recess, the measurement should be taken in 3 places and the smallest value should be specified in the order. Allowing for a slight mounting clearance should be taken into account.

**S** – width of the recess = ordering width.  
**H** – height of the recess = ordering height.

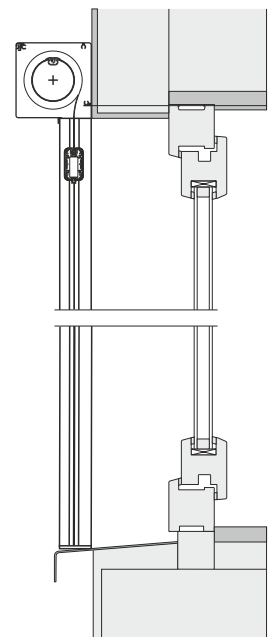
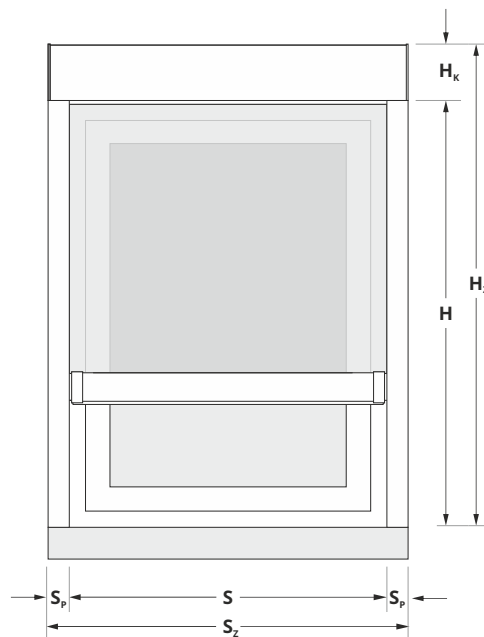
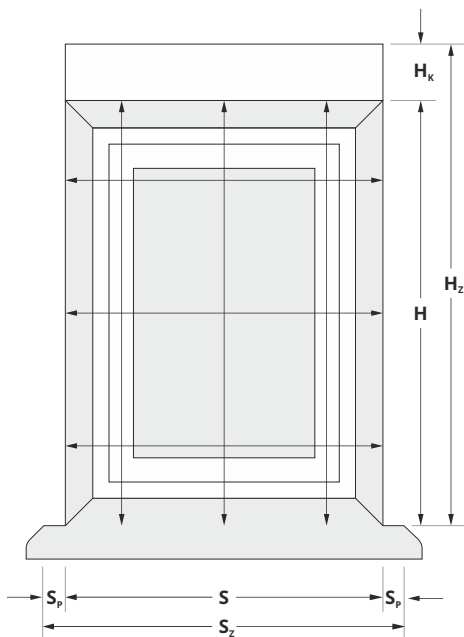


Dimensioning of Screen-blind – Surface mounting on the façade.

In the case of surface mounting on the façade, the recess should be measured and then:

- Height** – to calculate the ordering height, add the height of the box to the recess height.
- Width** – to calculate the ordering width, width of 2 side guides should be added to the recess width.

**S** – width of the recess.  
**S<sub>p</sub>** – width of the side guide.  
**S<sub>z</sub>** – width of the recess + 2x width of the side guide = ordering width.  
**H** – height of the recess.  
**H<sub>k</sub>** – height of the cassette.  
**H<sub>z</sub>** – height of the recess + height of the cassette = ordering height.



Dimensioning of the Screen-blind – flush mounting.

In case of flush mounting:

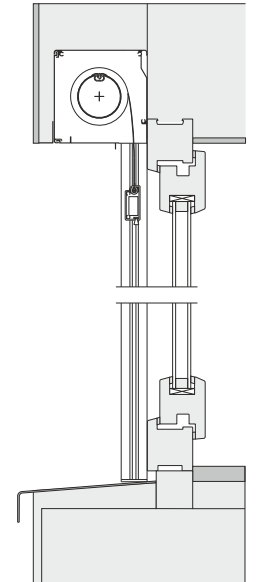
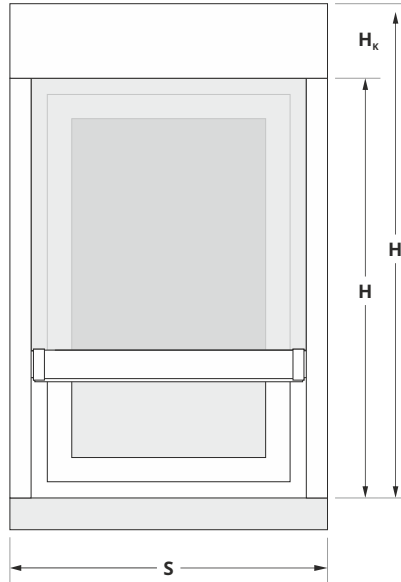
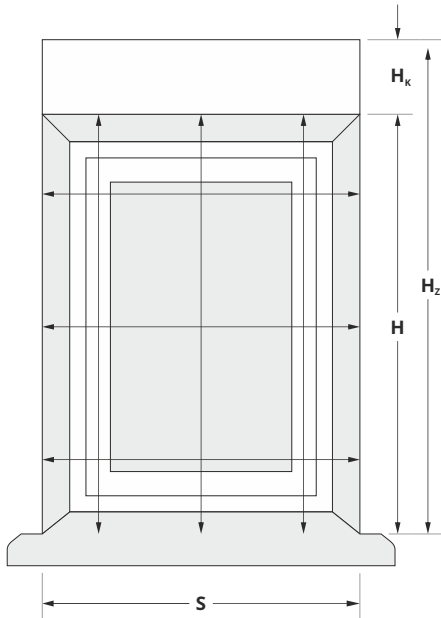
1. **Height** – to calculate the ordering height, add the height of the box to the recess height.
2. **Width** – width of the recess = ordering width.

**S** – width of the recess = ordering width.

**H** – height of the recess.

**H<sub>k</sub>** – height of the cassette.

**H<sub>z</sub>** – height of the recess + height of the cassette = ordering height.



Dimensioning of the Screen-blind – top mounting.

In case of top mounting:

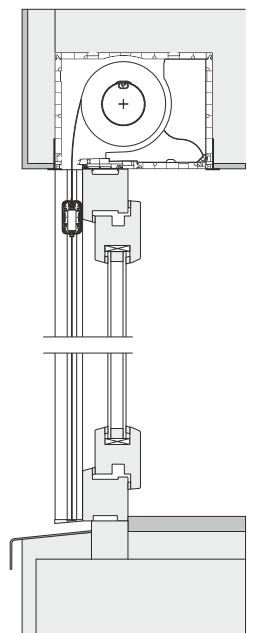
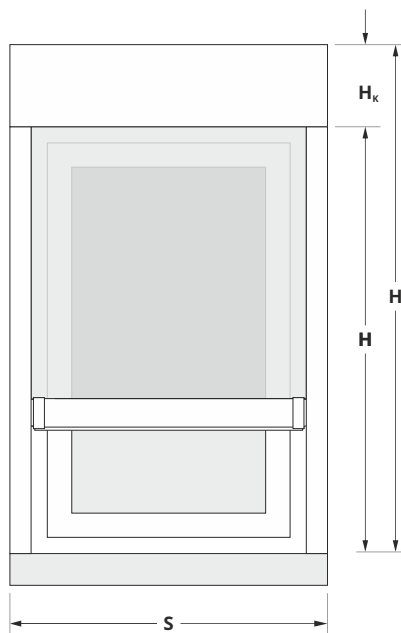
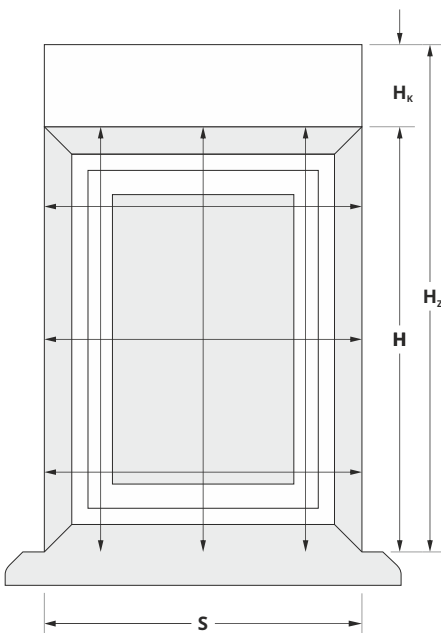
1. **Height** – to calculate the ordering height, add the height of the box to the recess height.
2. **Width** – width of the recess = ordering width.

**S** – width of the recess = ordering width.

**H** – height of the recess.

**H<sub>k</sub>** – height of the cassette.

**H<sub>z</sub>** – height of the recess + height of the cassette = ordering height.



Wind speed test report

wind class	description	wind speed [km/h]	impact description on land
0	calm	<1,85	no wind, smoke billowing upright.
1	light Air	1,85-7,41	the direction of the wind is visible in the direction of smoke, there is no breeze.
2	light breeze	7,41-12,96	the wind felt on face, the leaves lightly rocked.
3	gentle wind	12,96-20,37	the leaves and twigs continue to sway.
4	moderate wind	20,37-29,63	dust and paper blowing, twigs and small branches sway.
5	fresh breeze	29,63-40,74	small trees sway, white foam in a sea water.
6	strong wind	40,74-51,86	the big branches swayed, the sounds of the electric wire.
7	high wind	51,86-62,97	the whole tree rocked.
8	gale	62,97-75,93	the branches of a broken tree, walking against a wind are quite heavy.
9	severe Gale	75,93-88,90	the roof of the house is blown and thrown.
10	strong storm	88,90-103,71	trees are uprooted, houses are severely damaged.
11	violent Storm	103,71-118,53	storm damage large areas.
12	hurricane force	>118,53	big trees uprooted, houses collapsed.

Wind resistance class taking the dimensions into account (when using the ZIP guidance system)

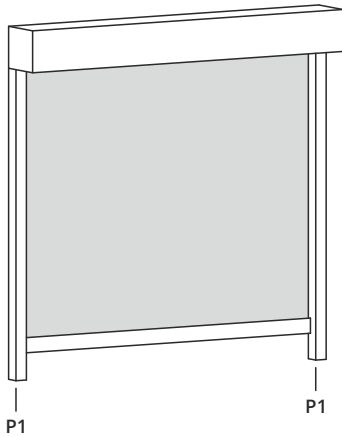
← width (mm)

up to	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000
1000	11	11	11	11	9	9	9	9	9	8	8
1500	11	11	11	11	9	9	9	9	9	8	8
2000	11	11	11	11	9	9	9	9	9	8	8
2500	9	9	9	9	9	9	9	9	9	8	8
3000	9	9	9	9	9	9	9	9	9	8	8
3500	9	9	9	9	9	9	9	9	9		
4000	9	9	9	9	9	9	9	9			
4500	9	9	9	9	9	9	9				
5000	9	9	9	9	9						

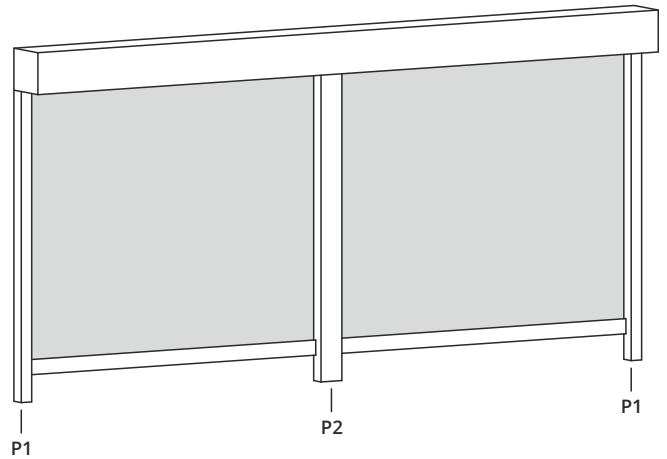
↑ height (mm)



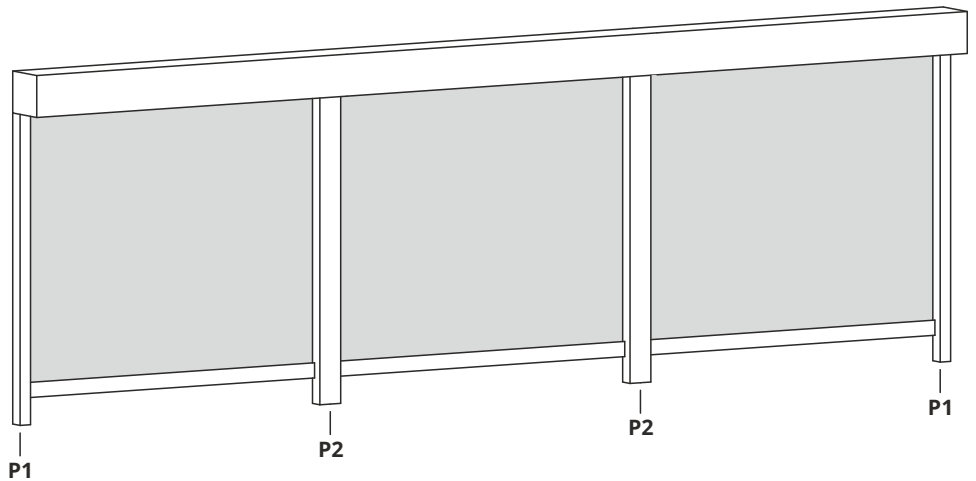
1 blind in a 1 box



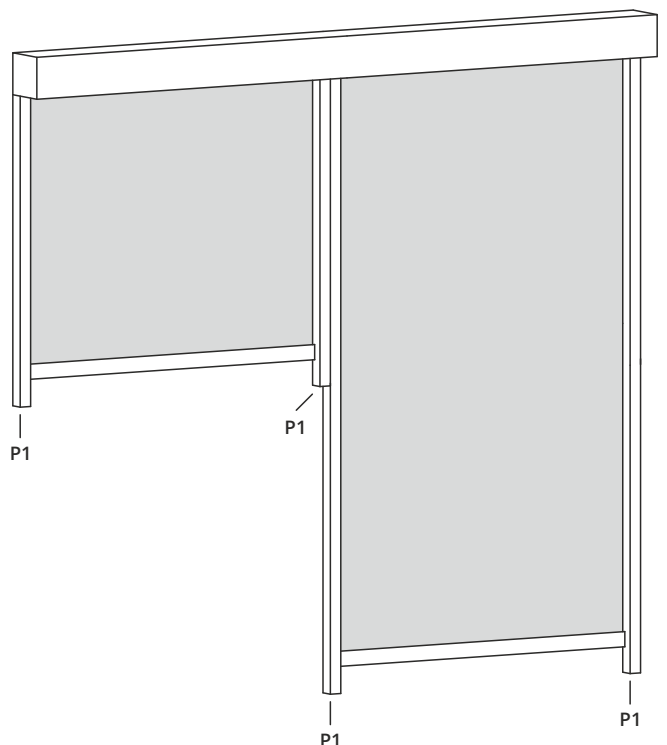
2 blinds in a 1 box



3 blinds in a 1 box



2 blinds of different heights in a 1 box



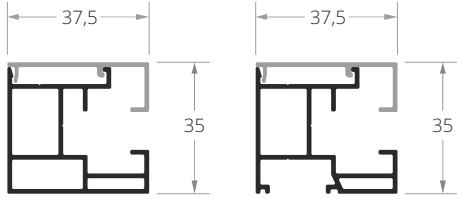
P1 – means single guide.

P2 – means (depending on the system) a double-sided guide or two single guides, folded together to create a double guide.

Premium system – side guides (in 2-pieces guides – with gray colour the end-cap has been marked)

Premium system, ZIP guidance, surface mounting.

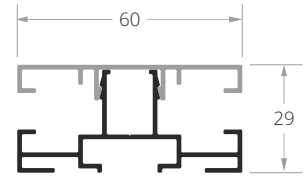
P1 single side guide



Standard side guide

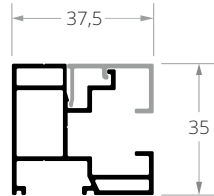
PD side guide

P2 double side guide

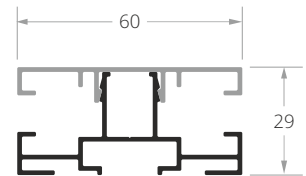


Premium system, ZIP guidance, flush mounting, partly building-over of the side guides.

P1 single side guide

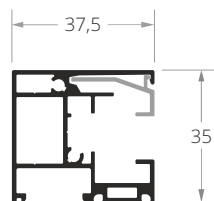


P2 double side guide

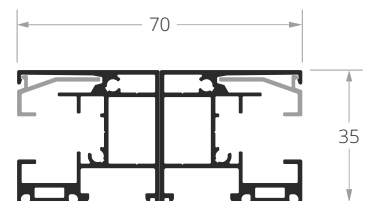


Premium system, ZIP guidance, flush mounting, completely building-over of the side guides (attention – no double side guide, the set is connected by two single guides).

P1 single side guide

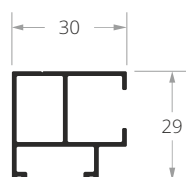


P2 two side guides P1

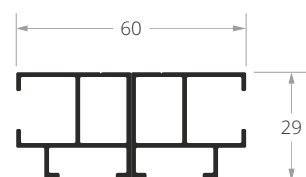


Premium system, side guidance - bottom beam in side guides (attention – no double side guide, the set is connected by two single guides).

P1 single side guide



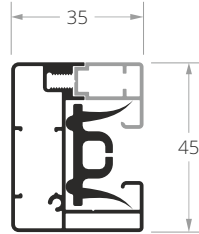
P2 two side guides P1



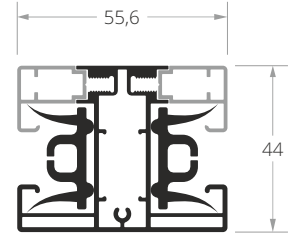
Standard system – side guides (in 2-pieces guides – with gray colour the end-cap has been marked)

Standard system in a extruded surface-mounted box, ZIP guidance.

P1 single side guide

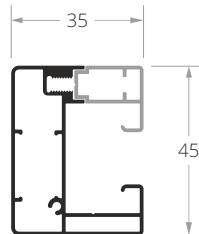


P2 double side guide

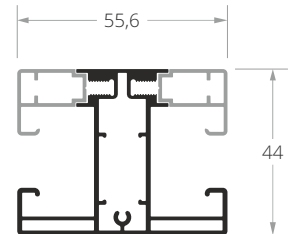


Standard system in a extruded surface-mounted box, side guidance - bottom beam in side guides.

P1 single side guide

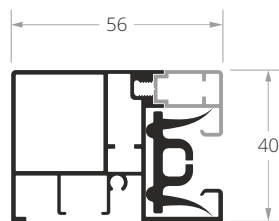


P2 double side guide

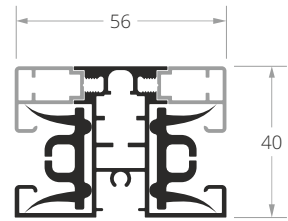


System Standard in top-mounted recessed box, ZIP guidance.

P1 single side guide

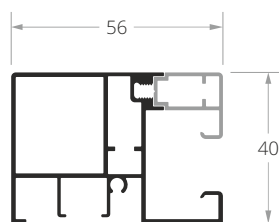


P2 double side guide

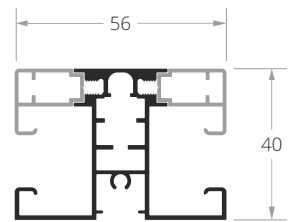


Standard system in top-mounted recessed box, side guidance - bottom beam in side guides.

P1 single side guide



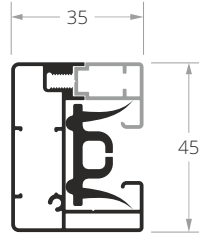
P2 double side guide



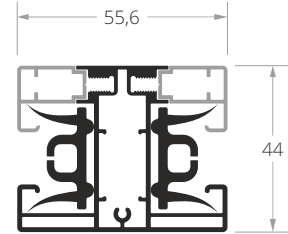
Basic systems – side guides (in 2-pieces guides – with gray colour the end-cap has been marked)

Basic system in a bent surface-mounted box, ZIP guidance.

P1 single side guide

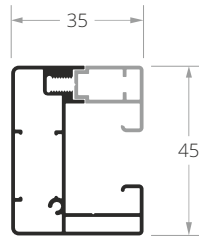


P2 double side guide

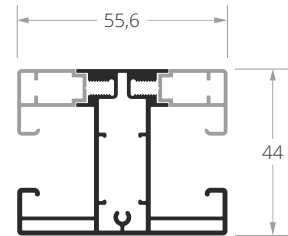


Basic system in a bent surface-mounted box, side guidance - bottom beam in side guides.

P1 single side guide

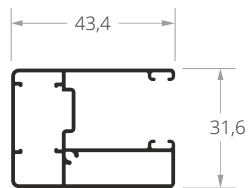


P2 double side guide

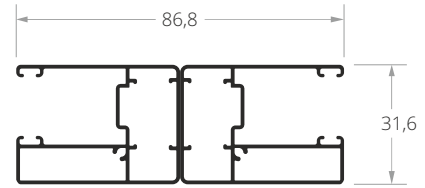


Basic SPR system in a bent surface-mounted box with spring control (attention – no double side guide, the set is connected by two single guides).

P1 single side guide



P2 two side guides P1

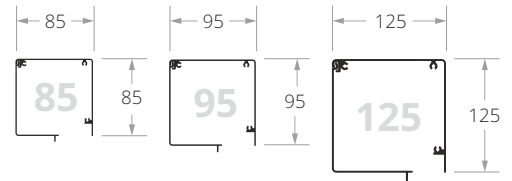
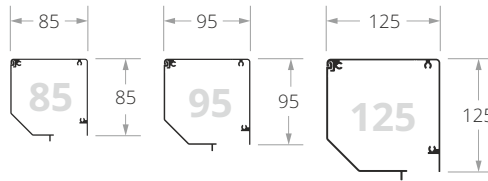




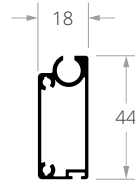
PREMIUM SYSTEM, surface mounting, ZIP guidance.

CASSETTES 45°

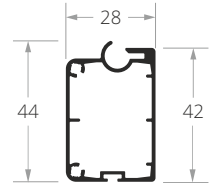
CASSETTES 90°



STANDARD BOTTOM BEAM  
Od 1 m do 5 m.

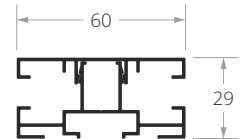
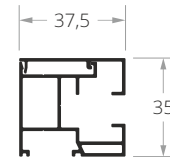
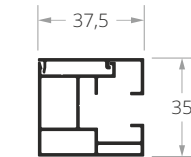
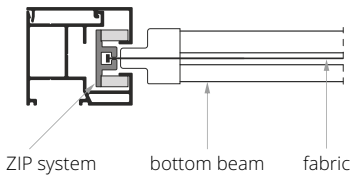


REINFORCED BOTTOM BEAM  
Od 0 do 1 m.  
Od 5 m do 6 m.



GUIDANCE SCHEME

SIDE GUIDES



standard side guide

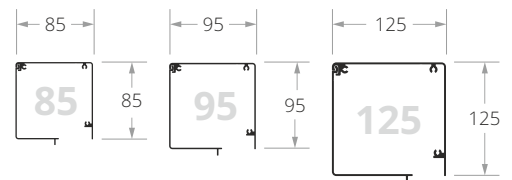
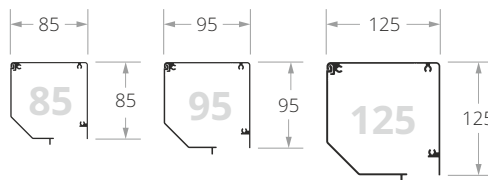
PD side guide

double

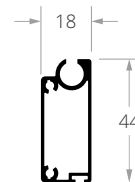
PREMIUM SYSTEM, surface mounting, side guidance - bottom beam in side guides.

CASSETTES 45°

CASSETTES 90°

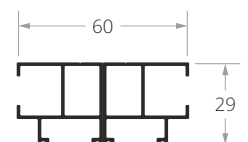
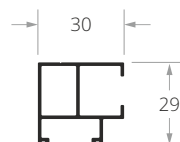
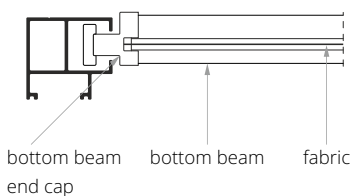


STANDARD BOTTOM BEAM



GUIDANCE SCHEME

SIDE GUIDES



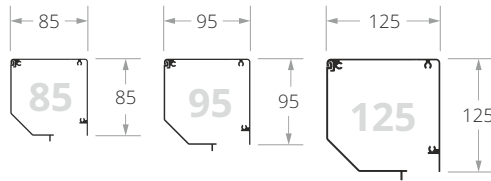
single

double (two single)

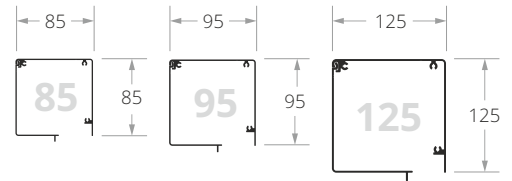
PREMIUM SYSTEM, surface mounting, side guidance - with cables - without guides.



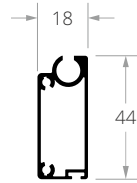
CASSETTES 45°



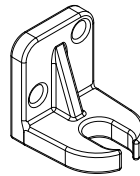
CASSETTES 90°



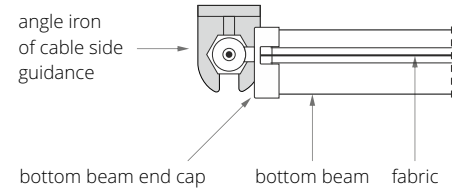
STANDARD BOTTOM BEAM



ANGLE IRON OF CABLE SIDE GUIDANCE



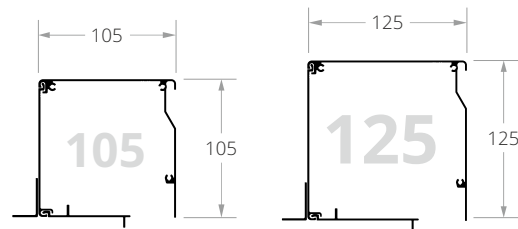
GUIDANCE SCHEME



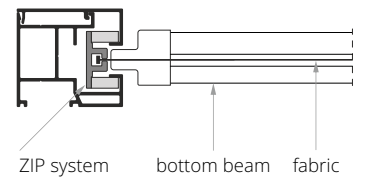
PREMIUM SYSTEM in SKP box, flush mounting, ZIP guidance.



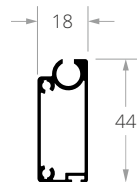
CASSETTES



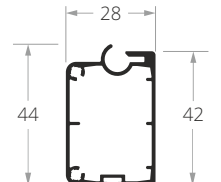
GUIDANCE SCHEME



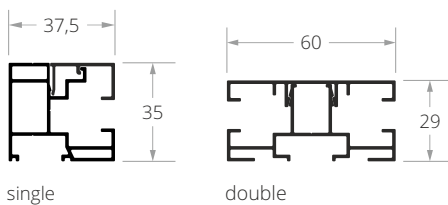
STANDARD BOTTOM BEAM  
Od 1 m do 5 m.



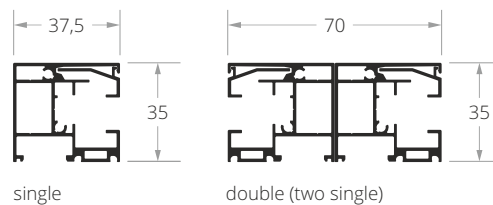
REINFORCED BOTTOM BEAM  
Od 0 do 1 m.  
Od 5 m do 6 m.



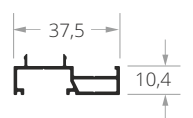
SIDE GUIDES (do zabudowy częściowej)



SIDE GUIDES (do zabudowy całkowitej)

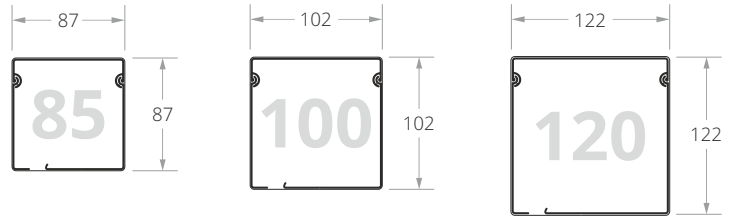


PROFIL DYSTANSOWY

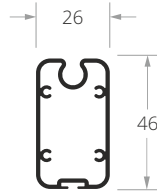


STANDARD SYSTEM, extruded surface-mounted box, ZIP guidance.

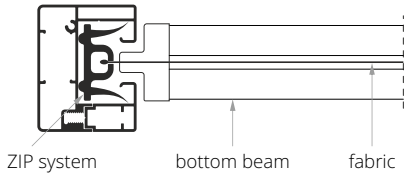
CASSETTES



BOTTOM BEAM



GUIDANCE SCHEME

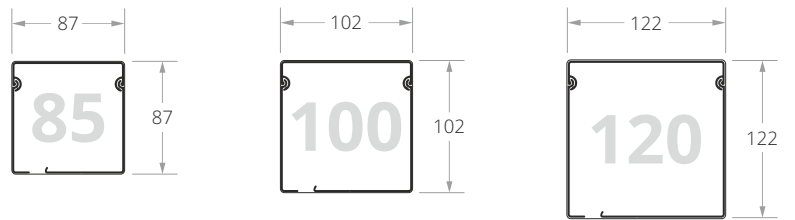


SIDE GUIDES

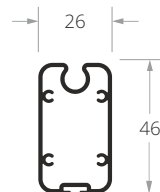


STANDARD SYSTEM, extruded surface-mounted box, side guidance - bottom beam in side guides.

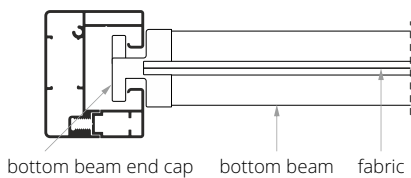
CASSETTES



BOTTOM BEAM



GUIDANCE SCHEME

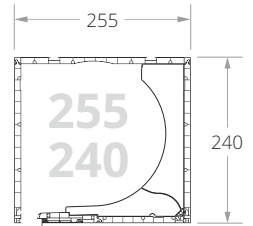
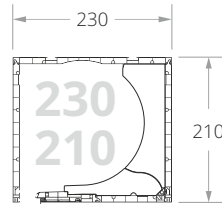
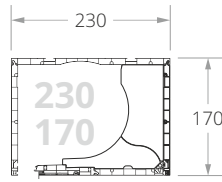


SIDE GUIDES

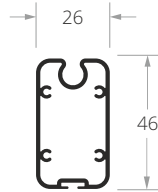


STANDARD SYSTEM, top-mounted box, ZIP guidance.

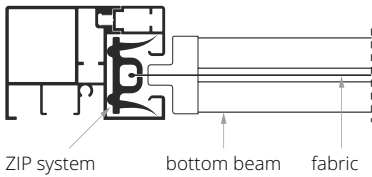
CASSETTES



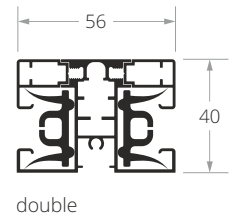
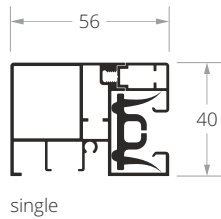
BOTTOM BEAM



GUIDANCE SCHEME

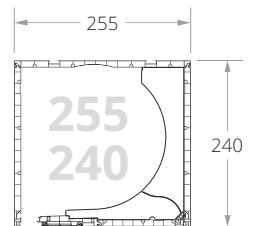
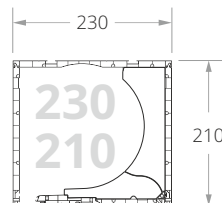
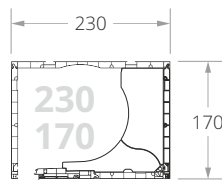


SIDE GUIDES

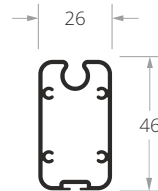


STANDARD SYSTEM, top-mounted box, side guidance - bottom beam in side guides.

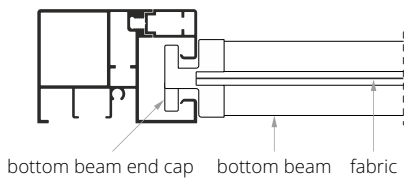
CASSETTES



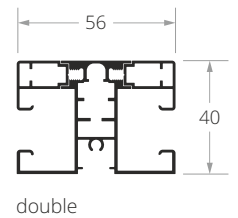
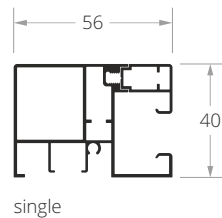
BOTTOM BEAM



GUIDANCE SCHEME

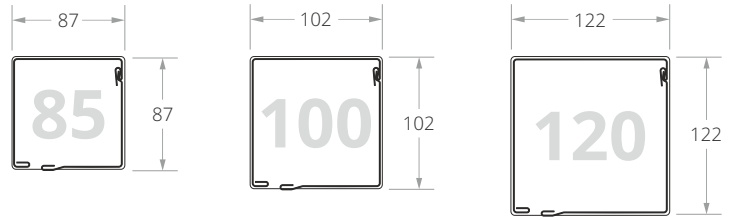


SIDE GUIDES

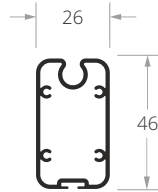


BASIC SYSTEM, bent surface-mounted box, ZIP guidance.

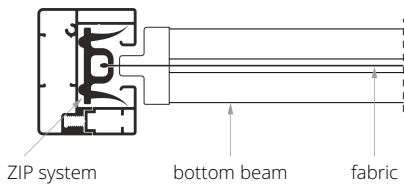
CASSETTES



BOTTOM BEAM



GUIDANCE SCHEME

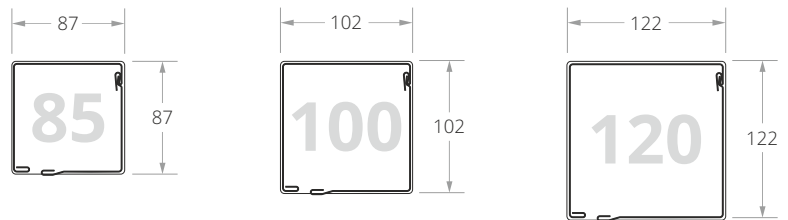


SIDE GUIDES

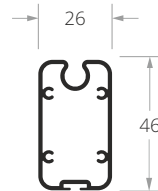


BASIC SYSTEM, bent surface-mounted box, side guidance - bottom beam in side guides.

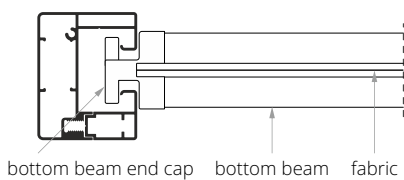
CASSETTES



BOTTOM BEAM



GUIDANCE SCHEME

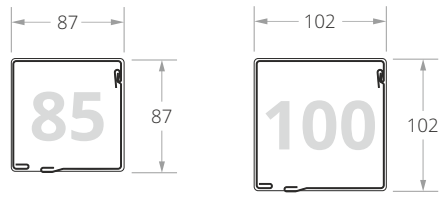


SIDE GUIDES



BASIC SPR SYSTEM, bent surface-mounted box, controlled by spring.

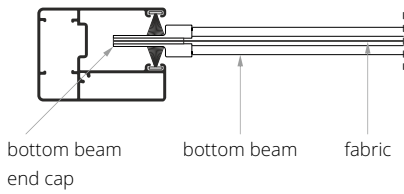
CASSETTES



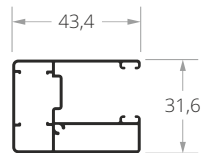
BOTTOM BEAM



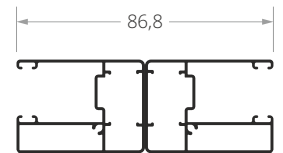
GUIDANCE SCHEME



SIDE GUIDES



single



double (two single)

Drive name	Torque (NM)	Rotational speed U/min	Voltage rating (V-50HZ)	Electric current intensity (A)	Power rating	Number of conductors in cable
Maestria+ IO 6/17	6	17	230 V	0,45	90	3
Maestria+ IO 6/32	6	32	230 V	0,5	120	3
Maestria+ IO 10/17	10	17	230 V	0,5	120	3
Maestria+ IO 10/32	10	32	230 V	0,75	160	3
Maestria+ IO 15/17	15	17	230 V	0,65	140	3
Maestria+ IO 15/32	15	32	230 V	1,1	240	3
Maestria+ IO 25/17	25	17	230 V	0,8	170	3

### Maestria+ IO

A drive dedicated to various types of screens, especially the ZIP type. The drives operate in io-homecontrol® technology. Maestria+ io will make the daily use of screens safe and comfortable - corresponding to your requirements.

#### Advantages of the drive:

- io-homecontrol bidirectional radio technology;
- the "back release" function allows you to reduce the tension of the fabric in the top end position, which protects the fabric from damage;
- obstacle and icing detection;
- compatible with solar, wind and rain automation;
- easy programming;
- compatible with series Smoove, Situo, Nina remote controls as well as Tahoma weather automation.



Maestria WT 6/17	6	17	230 V	0,45	90	4
Maestria WT 10/17	10	17	230 V	0,5	120	4
Maestria WT 15/17	15	17	230 V	0,65	140	4

### Maestria WT

Universal drive for standard and ZIP screens. Enables automatic and manual adjustment of limit positions (top and bottom).

#### Advantages of the drive:

- the possibility of adjusting the end positions in any way (full automatic adjustment or with using of a switch; automatic adjustment of top limit position only when adjusting the bottom limit position by a switch);
- automatic setting of extreme positions and saving end positions 5 mm before extreme ones;
- obstacle detection while moving both up and down;
- back release function;
- possibility of disabling the obstacle detection and resetting the end positions by using the building automation systems;
- compatible with switches of various series.



Sunilus IO 6/17	6	17	230 V	0,45	90	3
Sunilus IO 10/17	10	17	230 V	0,5	120	3
Sunilus IO 15/17	15	17	230 V	0,65	140	3

### Sunilus SCR

The Sunilus drive with bidirectional radio communication io-homecontrol® allows you to automate the work of screens so that their control is practical and comfortable.

#### Advantages of the drive:

- io-homecontrol® bidirectional radio technology (feedback);
- compatible with wind and sun sensors;
- compatible with series Smoove, Situo, Nina remote controls as well as Tahoma weather automation;
- the "tensioning of the unfolded material" function allows you to adjust the tension of the material in the bottom end position, guaranteeing a perfect appearance of the blind.



Solus 6 PA 6/12	6	12	230 V	0,4	90	4
Solus 6 PA 10/12	10	12	230 V	0,45	90	4
Solus 6 PA 15/12	15	12	230 V	0,5	120	4
Solus 6 PA 20/12	20	12	230 V	0,65	140	4

### Solus

The classic universal drive for sun shading systems automation.

#### Advantages of the drive:

- up, stop, down function;
- mechanical setting of end positions;
- easy to use and install;
- compatible with switches of various series.



Drive name	Torque (NM)	Rotational speed U/min	Voltage rating (V-50HZ)	Electric current intensity (A)	Power rating	Number of conductors in cabel
Selve SEZ 2/7	7	17	230 V	0,41	95	4
Selve SEZ 2/10	10	17	230 V	0,45	105	4
Selve SEZ 2/15	15	17	230 V	0,66	152	4
Selve SEZ 2/20	20	17	230 V	0,75	172	4
Selve SEZ-RC 2/7	7	17	230 V	0,41	95	4
Selve SEZ-RC 2/10	10	17	230 V	0,45	105	4
Selve SEZ-RC 2/15	15	17	230 V	0,66	152	4
Selve SEZ-RC 2/20	20	17	230 V	0,75	172	4

**Selve SEZ**

A drive dedicated to various types of screens, especially the ZIP type. Drive designed to protect textile sun-shields.

**Advantages of the drive:**

- wired control;
- automatical setting of end positions;
- reversing function - three-fold approach to the obstacle;
- detecting gusts of wind while lifting up;
- freezing protection;
- gentle approach to the cassette and slacking of the fabric at the top end point;
- compatible with switches of various series.



**Selve SEZ RC**

A drive dedicated to various types of screens, especially the ZIP type. Drive designed to protect textile sun-shields.

**Advantages of the drive:**

- built-in radio;
- wired contro;l
- automatical setting of end positions;
- reversing function - three-fold approach to the obstacle;
- detecting gusts of wind while lifting up;
- freezing protection;
- gentle approach to the cassette and slacking of the fabric at the top end point;
- compatible with Commeo series remote controls and Selve Home Server weather automation.



Selve SE PLUS 2/7	7	17	230 V	0,41	95	4
Selve SE PLUS 2/10	10	17	230 V	0,45	105	4
Selve SE PLUS 2/15	15	17	230 V	0,66	152	4
Selve SE PLUS 2/20	20	17	230 V	0,75	172	4
Selve SE PLUS RC 2/7	7	17	230 V	0,41	95	5
Selve SE PLUS RC 2/10	10	17	230 V	0,45	105	5
Selve SE PLUS RC 2/15	15	17	230 V	0,66	152	5
Selve SE PLUS RC 2/20	20	17	230 V	0,75	172	5

**Selve SE PLUS**

Wired drive dedicated to Screen blinds.

**Advantages of the drive:**

- wired control
- possibility of connecting three drives in paralel,
- freezing protection;
- gentle approach to the cassette and slacking of the fabric at the top end point;
- compatible with switches of various series.



**Selve SE PLUS RC**

Radio drive with an electronic limit switch.

**Advantages of the drive:**

- built-in radio;
- freezing protection;
- gentle approach to the cassette and slacking of the fabric at the top end point;
- compatible with Commeo series remote controls and Selve Home Server weather automation.





Drive name	Torque (NM)	Rotational speed U/min	Voltage rating (V-50HZ)	Electric current intensity (A)	Power rating	Number of conductors in cable
Standard wired motor	20	15	230 V	0,64	145	3
Standard radio motor	20	15	230 V	0,64	145	3

**Standard wired motor**

A standard drive designed to automate the operation of screen roller blinds. It can be controlled by a push button or an external radio receiver. It is equipped with mechanical limit switches that allow the motor to be stopped in a required position of the roller blind.

- compatible with switches of various series.



**Standard radio motor**

The radio drive is designed to automate the operation of screen blinds. It has a built-in radio receiver that allows wireless control using a remote control, and mechanical limit switches allow you to stop the motor in a desired position of the screen blind. Thanks to the microswitch that the drive is equipped with, you can easily program up to 20 transmitters on each motor.

- compatible with Melody, Artistic, Magnetic Pixel and many other remotes.



Sun Top/Z M10/23 RH	10	14	230 V	0,9	200	4
Sun Top/Z M20/23 RH	20	14	230 V	0,9	200	4
Sun Top/Z M30/23 RH	30	14	230 V	0,9	200	4
Sun Top/Z M10/23 868 RH	10	14	230 V		200	4
Sun Top/Z M20/23868 RH	20	14	230 V		200	4
Sun Top/Z M30/23 868 RH	30	14	230 V		200	4

**Napędy Elero SunTop/Z M RH**

SunTop/Z M RH is a tubular motor, which is particularly suitable for ZIP roller blinds. If the blind hits an obstacle while lowering the fabric, the safety function will block the blind's operation.

**Advantages of the drive:**

- intelligent force measurement;
- protection of the roller blind during lowering;
- blockage detection during lifting;
- the possibility of adjusting the end position with using of the assembly cable;
- round head for ZIP systems;
- compatible with switches of various series.



**Napędy Elero SunTop/Z M-868 RH**

SunTop/Z M-868 RH is a radio tubular motor equipped with a function that stops the roller blind, when it encounters an obstacle while lowering. It is particularly suitable for ZIP roller blinds.

**Advantages of the drive:**

- intelligent force measurement;
- protection of the roller blind during lowering;
- blockage detection during lifting;
- the possibility of adjusting the end position with using of the assembly cable or manual sender;
- round head for ZIP systems;
- compatible with remote controls.



## Use and maintenance

Use of the product in accordance with its intended use:

- normal use of the product, excluding risky actions taken by the user, in particular making structural modifications;
- the use of appropriate working parameters;
- fulfilling periodic maintenance and inspections.

Improper use of the product may result in:

- putting users at risk;
- product malfunction;
- product damage.

The product should not be used during maintenance work (e.g. washing windows).

Basic procedures performed during the inspection:

- checking the fastening elements of the construction (including bolted and riveted connections);
- checking the technical condition of the movable parts of the product;
- checking the electrical connections;
- checking the condition of the fabric, guides and seals.

In case of a defect, its removal should be carried out by qualified persons and with using of original components.

## Product maintenance

To clean metal / aluminum / material elements, it is recommended to use water with the addition of mild detergents and a soft wiper or sponge. Prohibited actions during product maintenance are:

- use of high pressure washers;
- use of strong cleaning agents, e.g. solvent or bleach;
- use of cleaning agents that cause scratches (paste/powder);
- use of sharp tools, e.g. scouring pad.



## Transport and storage of goods

The Fart Produkt company makes every effort to ensure that the goods comply with the order. However, checking the completeness of the product is the responsibility of the buyer and should take place at the time of receipt of the goods. Any discrepancies in terms of the quantity of goods or obvious damage should be immediately reported to the driver or warehouseman. Inconsistencies resulting from the quantity of goods or goods with obvious defects Fart Produkt undertakes to supplement or replace them as soon as possible.

The product is factory packed in a cardboard box to protect it against damage during transport, storage and transport to the assembly site. The product should not be stored in layers, due to the risk of damaging the packaging, which may lead to permanent damage to the product. During storage, the goods should be protected against weather conditions, and during transport also against possible movement.

## General warranty conditions

The warranty does not cover:

- damage caused by transport other than Fart Produkt;
- damage caused by improper storage;
- damage resulting from improper assembly, adjustment or self-repair, and the use of the product despite damaged components;
- damage caused by improper use or application of the product;
- mechanical damage or use of the product despite noticing the original defect;
- defects resulting from normal wear and tear of product parts, e.g. seals or brushes;
- damage caused when used in inappropriate weather conditions.

The fabric warranty does not cover:

- incorrect fabric winding on the tube caused by wrong fabric balance during assembly or dirt present on the fabric;
- fabric reaction to work in different temperature ranges (thermal expansion);
- the folds in the middle part of the fabric, so-called "fir effect", resulting from the bending of the winding tube;
- fabric corrugating at the welding area ("vertical waves");
- damage caused by unexpected weather conditions (e.g. storms);
- damage resulting from improper cleaning, using caustic, abrasive or high-pressure cleaners;
- material waving in Zip systems along the guides - this phenomenon is caused by a zipper that deforms the material when the blind is rolled up, and this effect may intensify after long-term leaving the fabric in the rolled-up position.

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