



LET'S BUILD A BETTER FUTURE

 **COMPENDIUM  
OF SUN SHADING SYSTEMS, GARAGE DOORS  
AND INSECT SCREEN SOLUTIONS**

# ALUPROF

A EUROPEAN SUPPLIER OF HIGH-QUALITY  
SUN SHADING SOLUTIONS



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COMPENDIUM OF SUN SHADING SYSTEMS, GARAGE DOORS  
AND INSECT SCREEN SOLUTIONS  
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CORPORATE STRUCTURE OF THE **GRUPA KĘTY SA CAPITAL GROUP**

Extruded Products Segment



Aluminium Systems Segment



Flexible Packaging Segment



Sun Shading Systems Segment



Architectural Systems Segment



**ALUPROF – LET'S BUILD A BETTER FUTURE**

### Aluprof SA

Aluprof SA is part of the Grupa Kęty SA Capital Group – a company listed on the Warsaw Stock Exchange and the most technologically advanced and fastest-growing manufacturing company in the aluminium industry in Central and Eastern Europe. The Group operates 10 production facilities in Poland and 9 commercial companies across Europe and the United States. It is present in more than 50 countries and continues to expand into new global markets.

With over 70 years of experience, Aluprof works with more than 1,900 regular clients. Annual revenues exceed EUR 590 million, with exports accounting for over 40% of total sales.

Within Aluprof, two distinct business segments operate: the newly established Sun Shading Solutions Segment – **Aluprof Sun Shading Solutions**, focusing on roller shutter, garage door and insect screen systems, façade blinds, screens and pergolas; and the Architectural Systems Segment – **Aluprof Architectural Systems**, specialising in window and door systems, façade systems and fire-resistant solutions.



📍 Bielsko-Biała



📍 Opole, ul. Gosławicka



📍 Opole, ul. Wschodnia



📍 Opole, ul. Głogowska



📍 Opole, ul. Kaszubska

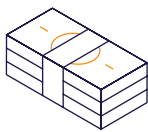


📍 Rogów Opolski

## » WHO WE ARE

Aluprof Sun Shading Solutions specialises in comprehensive sun shading systems, including external roller shutters, screens, façade blinds, roller garage doors, pergolas, awnings and aluminium insect screens. Thanks to our modern production and logistics infrastructure, we rank among Europe's leading manufacturers in this sector.

## » OUR REACH



**OVER 590 MLN €**  
MILLION IN ANNUAL  
REVENUE



**OVER 3000**  
EMPLOYEES



**75 YEARS**  
OF EXPERIENCE



**OVER 2600**  
BUSINESS  
PARTNERS



SALES NETWORK  
IN **57 COUNTRIES,**  
**ACROSS**  
**5 CONTINENTS**

## » PRODUCTION INFRASTRUCTURE

The Sun Shading Solutions Segment is located in the Opole region and operates 6 production facilities with a total area of 370,000 m<sup>2</sup>. We specialise in the manufacture of components intended for the prefabrication of sun shading systems. Our facilities are equipped with modern, high-performance and fully automated machinery. We supply components for systems such as external and internal roller shutters, roller garage doors and industrial doors, insect screens and screens. Our product portfolio also includes fully assembled sun shading systems.

### Advanced Machinery and Equipment

For sheet metal cutting, we use fibre laser systems and waterjet cutting machines, ensuring high precision and efficient performance. Machining operations are carried out on automated CNC machining centres as well as a turning centre, achieving accuracy below 5 µm. We also employ press brakes for bending, eccentric presses, and specialised equipment for aluminium profile processing. Advanced process automation and the wide range of available technologies enable us to deliver both high-volume serial production and customised individual orders.



### Powder Coating Facility

We operate three modern powder coating lines that meet the highest quality standards in surface treatment. This is confirmed by our internationally recognised QUALICOAT certification. SELT also holds certification in the QUALICOAT Seaside class, which guarantees enhanced coating resistance to aggressive environmental conditions, including high humidity and salt exposure – particularly important in coastal environments. In our coating processes, we use only high-quality IGP powder coatings, and for surface pre-treatment we rely on proven solutions supplied by the renowned company Chemetall. As a result, our coatings offer outstanding durability, aesthetic quality and resistance to external factors.

### High-Bay Warehousing

We operate warehouse facilities with a total storage area exceeding 81,000 m<sup>2</sup>, enabling materials to be stored at heights of up to 9 metres. The warehouse provides 8,000 storage locations, including long-length profile racks and pallet racking systems, allowing for the storage of more than 4,000 tonnes of aluminium profiles and other production materials. The main warehouse is located on Wschodnia Street.



## » LOGISTICS AND DISTRIBUTION

We operate our own transport fleet, comprising 28 heavy goods vehicles and 24 delivery vans, ensuring efficient product deliveries to even the most remote parts of Europe. Our logistics processes are supported by advanced ICT technologies integrated with vehicle monitoring systems, improving planning efficiency and enabling faster and safer deliveries to their destination.



## » DEVELOPMENT AND INNOVATION

The Research, Development and Innovation Department is responsible for testing manufactured products for compliance with product standards and EU directives. We cooperate with research institutes and measurement laboratories, preparing Declarations of Performance and Declarations of Conformity. We apply rapid prototyping methods using 3D printing technology and carry out complex structural strength analyses using FEM (Finite Element Method).

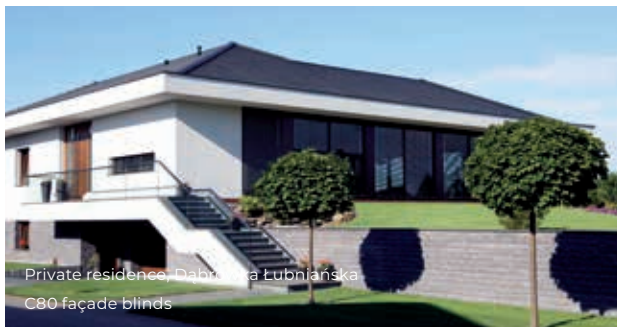
Our products are certified in accordance with EN 1090-1:2009+A1:2011 for the execution of aluminium structural components, as well as meeting the requirements of ISO 9001 and ISO 14001, confirming the highest standards of quality management and environmental responsibility.



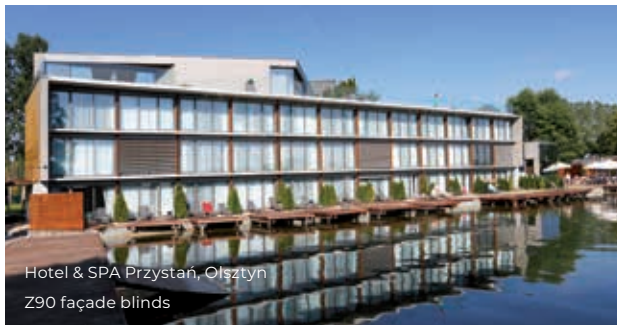
» PROJECT DELIVERY

The Project Delivery Department comprises a team of qualified engineers and project managers responsible for the comprehensive execution of projects. We work closely with architects, main contractors, façade contractors and window fabricators. We prepare full execution documentation and provide the necessary CAD documentation available via our project platform.

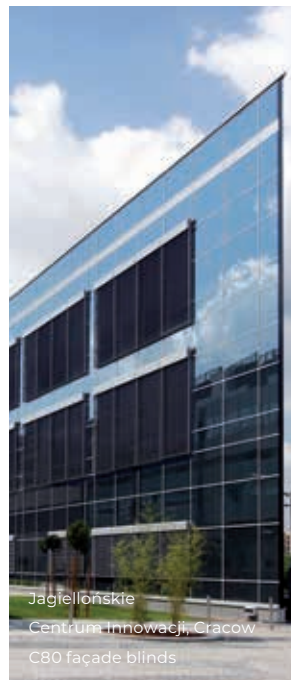
Our portfolio includes prestigious developments such as: the PGE Narodowy Stadium in Warsaw, Polsat Plus Arena Gdańsk, the Copernicus Science Centre in Warsaw, the Szczecin Philharmonic Hall and the Forest Opera in Sopot, where our high-quality sun shading solutions were applied. We have also delivered systems for office complexes certified to LEED and BREEAM standards (Q22, Atrium 1, Eurocentrum Office Complex), as well as international projects such as the Tax Office and Telenor Arena in Oslo, the RosenGarten residential development in Berlin, and Hochtaunus Kliniken in Bad Homburg and Usingen.



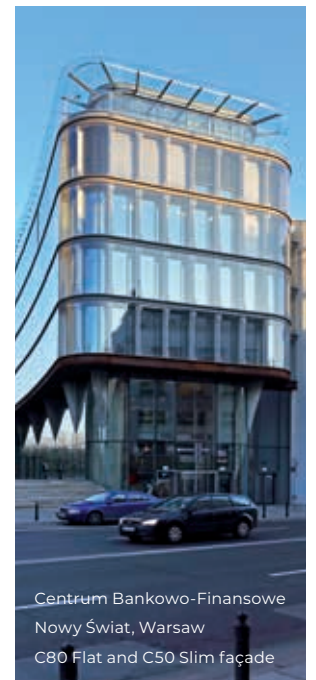
Private residence, Dąbrowa Lublińska  
C80 façade blinds



Hotel & SPA Przystań, Olsztyn  
Z90 façade blinds



Jagiellońskie  
Centrum Innowacji, Cracow  
C80 façade blinds



Centrum Bankowo-Finansowe  
Nowy Świat, Warsaw  
C80 Flat and C50 Slim façade

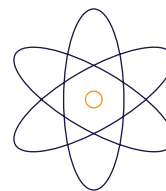
» R&D



High-quality components and system solutions. Tailored to the specific needs of the markets we serve.



A dynamic response to evolving trends and market requirements. Systems designed to meet individual client needs.



Verification of solutions already at the design stage. Prototyping and rigorous testing prior to production implementation.

## » TECHNICAL SUPPORT

We support our Business Partners at every stage of cooperation by offering:

- theoretical and practical training on sun shading systems.
- technical information materials and CAD/BIM documentation.
- prefabrication and installation animations.
- e-mail and telephone support from our technical advisors.
- legislative support related to placing products on the EU market.
- a complete set of test reports and certificates for products manufactured using Sun Shading Solutions components.



## » QUALITY AND ENVIRONMENT

Our products are certified in accordance with EN 1090-1:2009+A1:2011 for the execution of aluminium structural components, as well as meeting the requirements of ISO 9001 and ISO 14001 standards. We use recyclable materials, optimise energy consumption and apply environmentally responsible processes, including powder coating.

The ISO 14001 certification commits us to the continuous improvement of our environmental performance, which directly contributes to the durability and quality of the products we deliver.

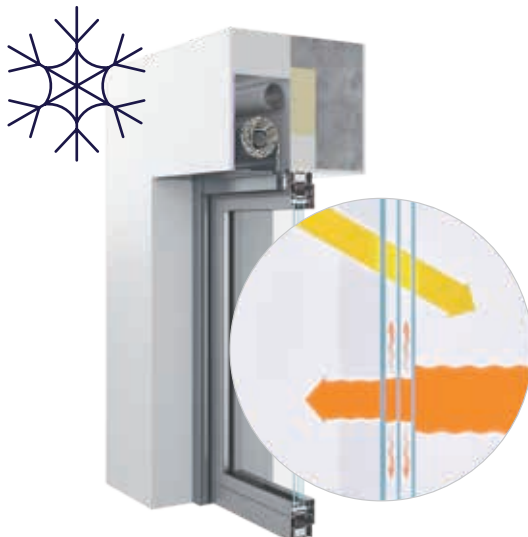
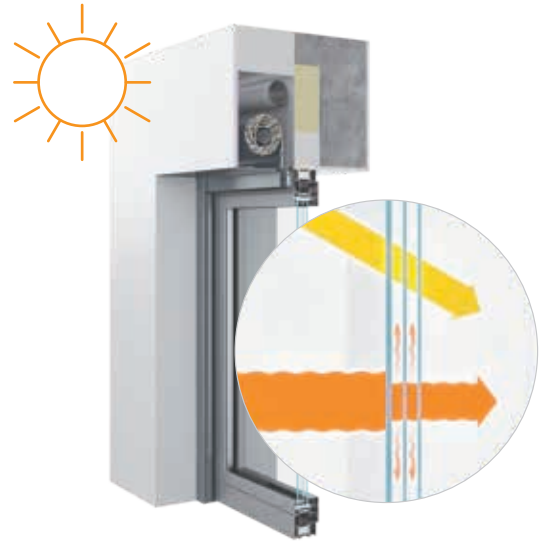


» WHY SUN SHADING SYSTEMS?

ALUPROF – LET'S BUILD A BETTER FUTURE

**Protection against overheating**

Without adequate shading, up to 80% of solar radiation can enter interior spaces, leading to excessive heat gains, fatigue and reduced concentration. Sun shading systems reflect and diffuse **80–90%** of sunlight before it reaches the glazing, eliminating glare and effectively protecting rooms from overheating.



**Reduced heat loss in winter**

Research conducted by Aluprof in cooperation with the Cracow University of Technology confirms that external roller shutters can reduce heat loss through windows by up to **26%**. When lowered, the roller shutter curtain provides additional thermal resistance thanks to the air layer between the curtain and the window, as well as the insulating properties of the curtain itself. This significantly limits the escape of warm indoor air.

## Smart automation

Weather-responsive automation enables precise control of heat exchange, helping to reduce the load on energy networks. On cold but sunny days, the system raises the curtain on the sunlit side of the building, allowing solar heat to be stored indoors. When sunlight levels and outdoor temperatures drop, the roller shutters automatically close, retaining warmth inside.



## Year-round flexibility

Unlike reflective glazing, which can restrict access to beneficial solar heat during winter, sun shading systems offer complete flexibility. In summer, they prevent overheating; in winter, they allow buildings to benefit from free solar energy. This makes them a more economical and versatile solution, ensuring comfort throughout the year.





# EXTERNAL ROLLER SHUTTERS

# ADAPTIVE ROLLER SHUTTER SYSTEM

## KEY FEATURES

- **Application:** existing buildings
- **Installation:** onto the building wall or within the reveal (installation onto joinery)
- **Box construction:** bent aluminium sheet (SK, SKEF, SKP and SKO-P) or extruded aluminium (SKE and SKO)
- **Roller shutter curtain:**
  - PA profiles manufactured from high-quality aluminium sheet filled with polyurethane foam, and finished with a special two-layer PU/PA coating system. Available profiles: PA 37/PAN 37/PA 39/PA 40/PA 43/PA 45/PA 52/PAB 52/PA 55
  - extruded profiles PE 41 and PE 55
  - PT 37 and PT 52 plastic profiles
- **Functionality:**
  - option to integrate MKT insect screen
  - system available in a burglar-resistant version (page 22)
  - thanks to the use of PPMO 53 guide rails, collision-free installation of MPH Harmony and MPH Verti pleated insect screen systems is possible
- **Tests:** wind load resistance, air permeability, thermal resistance, acoustic insulation
- **Colours:**
  - PA profiles are available in a wide range of standard colours, with wood-effect finishes also available
  - extruded profiles can be powder-coated in any colour from the palette; decorative coatings, including wood-effect finishes, are also available
- **Operation:** manual or electric

### Extruded aluminium boxes

SKE



SKO



### Aluminium sheet roller shutter boxes

SK



SKP



SKO-P



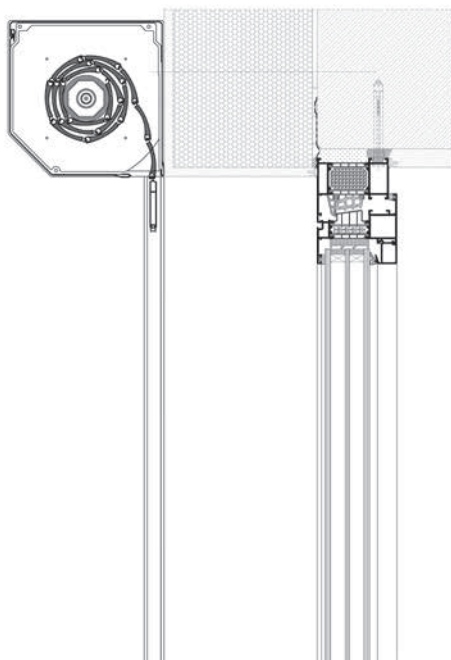
SKEF



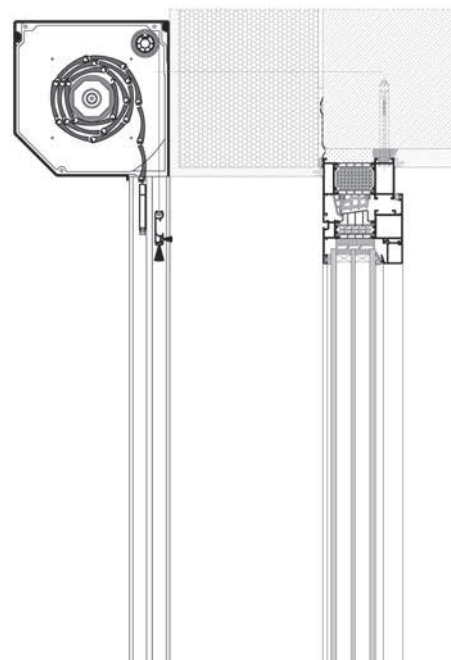
The SKEF box, offered within adaptive systems, has been designed for use with venetian blinds featuring slats sized 50–80 mm. This solution enables a harmonious combination of roller shutters and venetian blinds on a single façade, ensuring a consistent and visually attractive appearance.

## Example of installation in a double-layer wall

SK



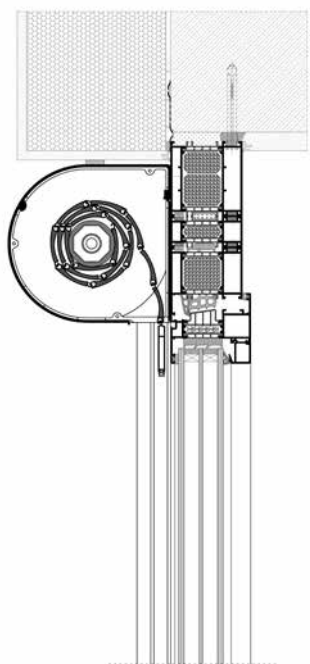
SKE + MKT



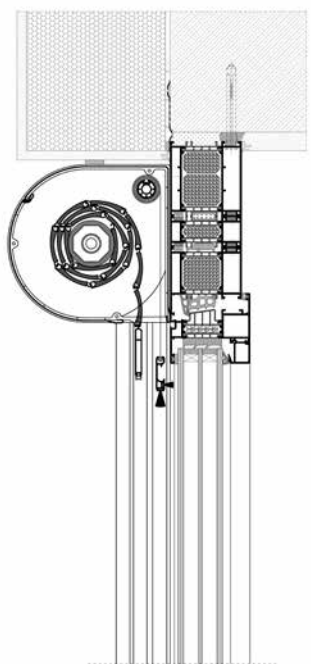


Example of installation in a double-layer wall

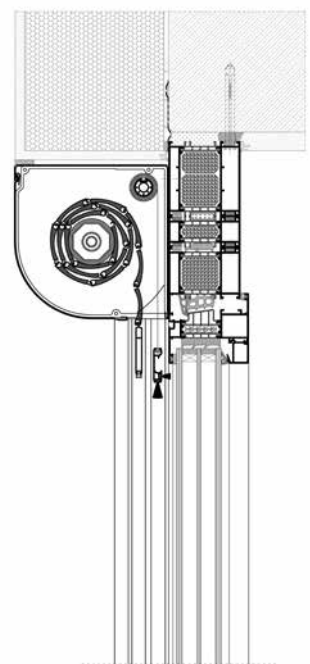
SKO



SKO-P + MKT

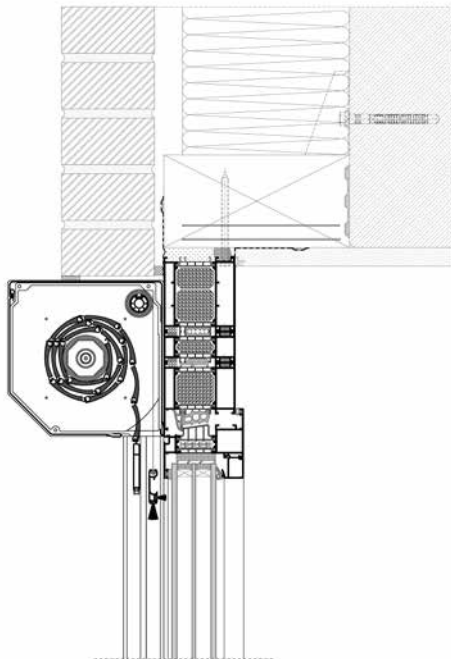


SKP + MKT

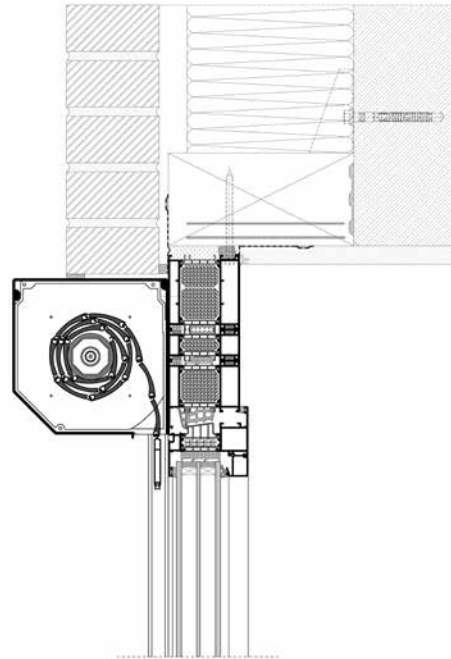


Example of installation in a three-layer wall

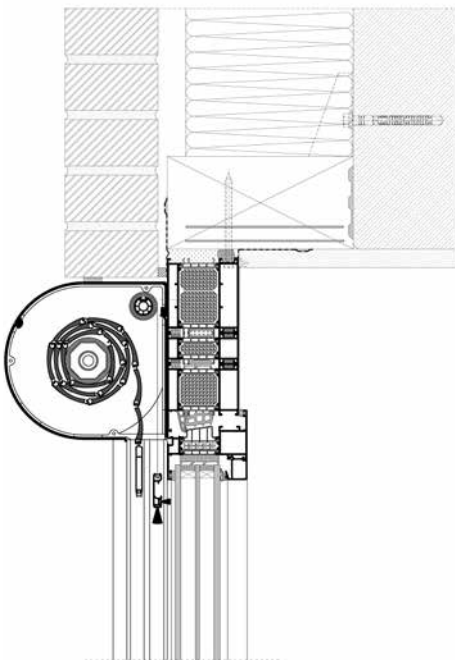
SK + MKT



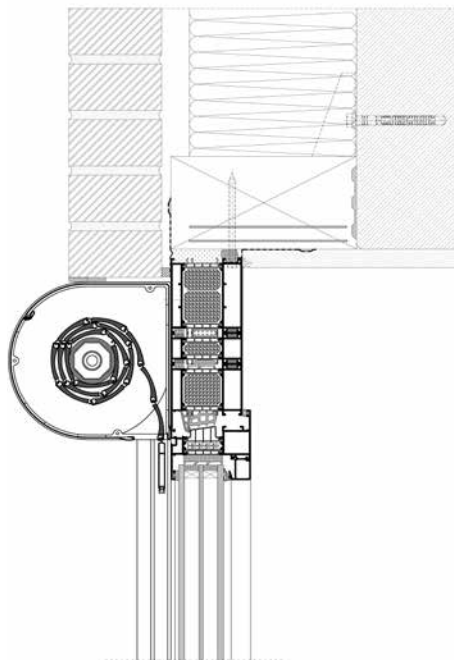
SKE



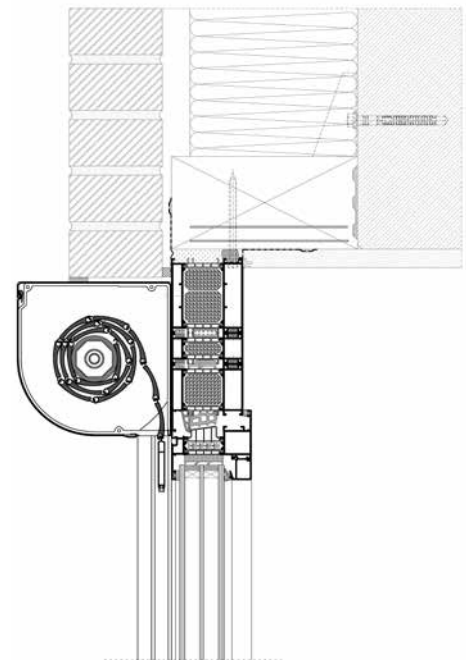
SKO + MKT



SKO



SKP





Maximum dimensions of external roller shutters for available profiles

MAXIMUM EXTERNAL ROLLER SHUTTER DIMENSIONS [mm]																			
Type and profile model	max area [m <sup>2</sup> ]	max szer. [mm]	Maximum height up to [mm]																
			125			137		150				165		180			205		
			SK	SKE, SKP	SKO-P, SKO	SK, SKE, SKP	SKO-P, SKO	SK, SKP	SKE	SKO-P	SKO	SK, SKE, SKP	SKO-P, SKO	SK, SKE, SKP	SKO-P	SKO	SK, SKE, SKP	SKO-P, SKO	
Foam-filled profile	PA 37	6,0	3 500	1 330	—	—	1 670	1 520	1 900	—	2 120	—	2 390	2 540	3 020	3 170	3 210	4 410	4 450
	PAN 37	5,5	2 400	—	—	—	1 880	—	2 220	—	—	—	2 780	—	3 520	—	—	4 680	—
	PA 39	6,0	3 900	1 280	—	—	1 600	1 600	1 990	—	2 110	—	2 470	2 510	3 060	3 260	3 260	4 320	4 370
	PA 40	7,0	4 100	—	—	—	1 080	1 080	1 400	—	1 480	—	1 850	1 850	2 340	2 740	2 740	3 070	3 070
	PA 43	9,0	3 900	1 060	—	—	1 410	1 410	1 800	—	1 890	—	2 500	2 500	3 100	3 110	3 110	4 150	4 150
	PA 45	6,5	3 700	—	—	—	1 150	930	1 250	—	1 610	—	1 710	2 020	2 210	2 570	2 570	3 480	3 530
	PA 52	8,0	4 600	—	—	—	900	850	1 210	—	1 320	—	1 590	1 640	2 060	2 060	2 060	2 700	2 700
	PAB 52	8,0	4 600	—	—	—	900	850	1 210	—	1 320	—	1 590	1 640	2 060	2 060	2 060	2 700	2 700
	PA 55	9,5	4 800	—	—	—	—	—	—	—	—	—	1 070	1 070	1 510	1 510	1 510	2 020	2 020
Extrusion profile	PE 41	8,5	5 900	—	—	—	1 100	1 100	1 310	—	1 520	—	1 750	1 650	2 190	2 150	2 150	3 180	3 100
	PE 55	15,0	5 900	—	—	—	—	—	—	—	—	—	1 010	960	1 220	1 130	1 130	1 800	1 690
PVC profile	PT 37	3,0	1 700	1 440	—	—	1 890	1 710	2 230	—	2 310	—	2 720	2 760	3 170	3 620	3 620	4 550	4 410
	PT 52	4,3	2 600	—	—	—	840	850	1 160	—	1 220	—	1 590	1 590	2 060	2 060	2 060	2 650	2 750








Maximum dimensions of external roller shutters with integrated insect screen MKT for available profiles

MAXIMUM EXTERNAL DIMENSIONS OF ROLLER SHUTTERS WITH MKT INSECT SCREEN [mm]																		
Type and profile model	max area [m <sup>2</sup> ]	max width [mm]	Maximum height up to [mm]															
			125		137		150				165		180		205			
			SK, SKE, SKP	SKO-P, SKO	SK, SKE, SKP	SKO-P, SKO	SK, SKP	SKE	SKO-P	SKO	SK, SKE, SKP	SKO-P, SKO	SK, SKE, SKP	SKO-P, SKO	SK, SKE, SKP	SKO-P, SKO		
Foam-filled profile	PA 37	6,0	2 000	—	—	—	—	1 230	—	1 310	—	1 610	1 830	2 390	2 400	2 500	2 500	
	PAN 37	5,5	2 000	—	—	—	—	1 260	1 260	—	—	1 930	—	2 500	—	2 500	—	
	PA 39	6,0	2 000	—	—	—	—	1 330	—	1 330	—	1 850	1 850	2 440	2 500	2 500	2 500	
	PA 40	7,0	2 000	—	—	—	—	890	—	890	—	1 250	1 290	1 700	1 740	2 500	2 500	
	PA 43	9,0	2 000	—	—	—	—	1 070	—	1 110	—	1 600	1 720	2 460	2 500	2 500	2 500	
	PA 45	6,5	2 000	—	—	—	—	890	—	940	—	1 350	1 430	1 710	2 120	2 500	2 500	
	PA 52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	PAB 52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	PA 55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Extrusion profile	PE 41	8,5	2 000	—	—	—	—	900	—	820	—	1 230	1 280	1 650	1 700	2 500	2 500	
	PE 55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
PVC profile	PT 37	3,0	1 500	—	—	—	—	1 270	—	1 380	—	1 870	1 800	2 500	2 500	2 500	2 500	
	PT 52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

# ADAPTIVE ROLLER SHUTTER SYSTEM

PROFILES  GUIDE RAILS		NAME	PVC profile		Aluminium profile with polyurethane foam									Extruded aluminium profile		
			PT 37	PT 52	PA 37	PAN 37	PA 39	PA 40	PA 43	PA 45	PA 52	PA 55	PAB 55	PE 41	PE 55	
			PP 53		Straight guide rail	■		■		■	■	■	■			
PP 53/ODS 12 mm 20 mm		Straight guide rail with offset	■		■		■	■	■	■					■	
PK 53 60 mm 120 mm		Corner guide rail	■		■		■	■	■	■					■	
PPMO 53		Straight guide rail with offset for insect screen	■		■		■	■	■	■					■	
PPDO 53		Guide rail Double	■		■		■	■	■	■					■	
N/PPDO		Aluminium guide rail cover PP 53, PP 53/ODS, PK 53, PPDO 53, PPMO 53	■		■		■	■	■	■					■	
D/PP		Aluminium guide rail spacer PP53, PK53, PPDO53	■		■		■	■	■	■					■	
PPD 79		Straight double-chamber guide rail	■		■		■	■	■	■					■	
PPD79/ODS 12 mm 20 mm		Straight double-chamber guide rail with offset	■		■		■	■	■	■					■	
PPDMO 79		Straight double-chamber guide rail with offset for insect screen	■		■		■	■	■	■					■	
PPDO 79		Straight double-chamber guide rail with insect screen	■		■		■	■	■	■					■	
PU 29		Simplified guide rail works with PP 53	■		■		■	■	■	■					■	
N/PPD 79		Aluminium guide rail cover PPD 79, PPD 79/ODS, PPDMO 79, PPDO 79	■		■		■	■	■	■					■	
PP 45		Straight guide rail			■		■	■	■	■						
PP 68		Straight guide rail	■		■		■	■	■	■					■	
PP 66		Straight guide rail		■							■		■			■
N/PP 66		Aluminium cover for PP 66 guide rail		■							■		■			■
PPW 66		reinforced straight guide rail													■	
PPW 66/ODS		Reinforced straight guide rail with offset													■	
PPW 80		Reinforced straight guide rail														■



BOTTOM RAIL				ROLLER SHUTTER PROFILE													
				PVC profile		Aluminium profile with polyurethane foam										Extruded aluminium profile	
CODE	HEIGHT	DESCRIPTION		PT 37	PT 52	PA 37	PAN 37	PA 39	PA 40	PA 43	PA 45	PA 52	PAB 52	PA 55	PE 41	PE 55	
LDG 40	35 mm	Aluminium bottom rail with rubber seal		■		■		■	■	■	■				■		
LDG-E	51 mm	Aluminium bottom rail "eco" with rubber seal		■		■		■	■	■	■				■		
LDG	51 mm	Aluminium bottom rail with rubber seal		■		■		■	■	■	■				■		
LDG 52	52 mm					■							■				
LDG 52/OPT	52 mm					■							■				
LDG 55	55 mm														■		■
LDG/S	55 mm														■		■

# CONCEALED ROLLER SHUTTER SYSTEM

## KEY FEATURES

- **Application:** new buildings or buildings where structural modifications to the lintel have been carried out
- **Installation:** to the lintel
- **Box construction:** bent aluminium sheet (SP-E) or extruded aluminium (SP). The front panel of the roller shutter box serves as a substrate for any finishing material
- **Roller shutter curtain:**
  - › PA profiles made of high-quality aluminium sheet filled with polyurethane foam, with a special two-layer coating system PU/PA. Available profiles: PA 37/PAN 37/PA 39/PA 40/PA 43/PA 45/PA 52/PAB 52/PA 55
  - › extruded profiles PE 41 and PE 55
  - › PT 37 and PT 52 plastic profiles
- **Functionality:**
  - › option to integrate MKT insect screen
  - › system available in a burglar-resistant version (page 22)
  - › thanks to the use of PPMO 53 guide rails, collision-free installation of MPH Harmony and MPH Verti pleated insect screen systems is possible
- **Tests:** wind load resistance, air permeability, thermal resistance, sound insulation, suitability for passive installation (certified by the Passive House Institute in Darmstadt)
- **Colours:**
  - › PA profiles are available in a wide range of standard colours, with wood-effect finishes also available
  - › extruded profiles can be powder-coated in any colour from the palette and are also offered with decorative coatings, including wood-effect finishes
- **Operation:** manual or electric

### Extruded aluminium boxes

SP



### Aluminium sheet roller shutter box

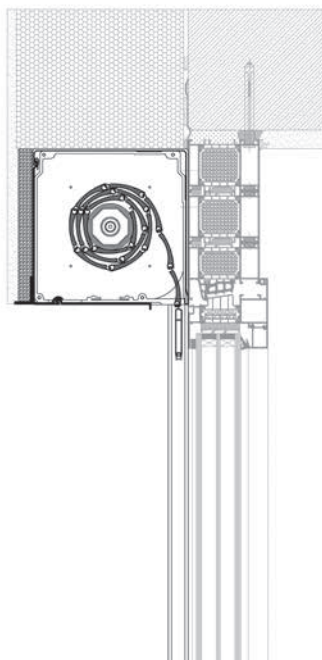
SP-E



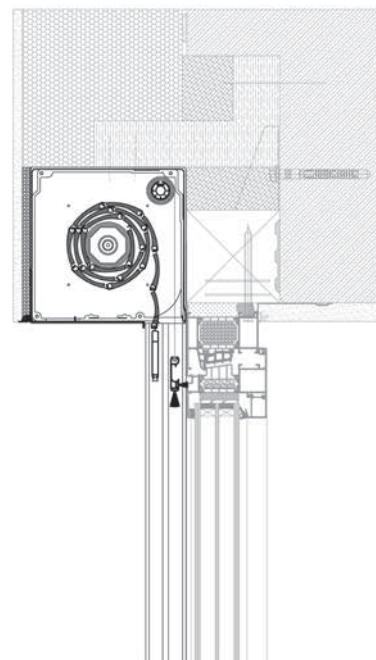
The Passive House Institute in Darmstadt (PHI) has recognised the performance of roller shutters used in the SP and SP-E systems. The organisation has issued a certificate for roller shutter boxes with a size of 165 mm or smaller, which, in both systems, may be successfully used in low-energy buildings, provided that installation is carried out in accordance with the certification requirements.

## Example of installation in a double-layer wall

SP



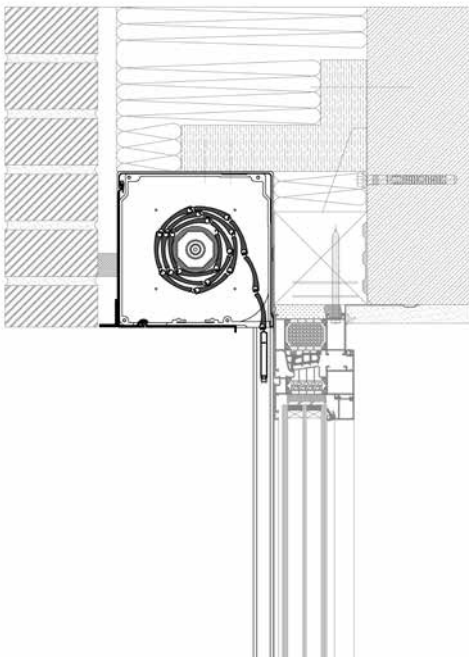
SP-E + MKT



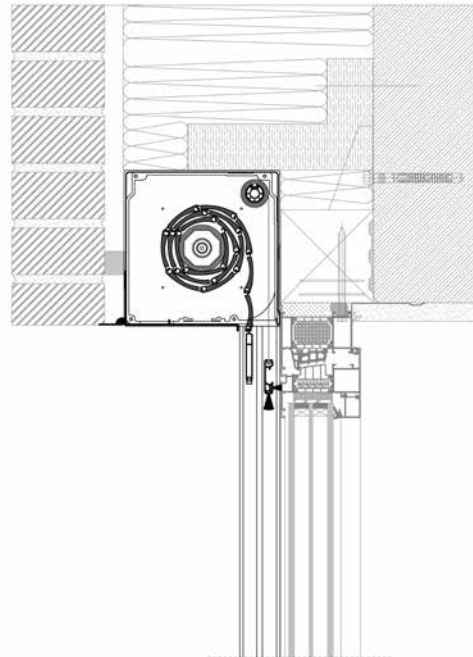


Example of installation in a three-layer wall

SP



SP-E + MKT



# CONCEALED ROLLER SHUTTER SYSTEM

## Maximum dimensions of external roller shutters for available profiles

MAXIMUM EXTERNAL DIMENSIONS OF THE ROLLER SHUTTER [mm]									
Type and profile model	max area [m <sup>2</sup> ]	max width [mm]	Maximum height up to [mm]						
			125	137	150	165	180	205	
			SP, SP-E						
Foam-filled profile	PA 37	6,0	3 500	1 330	1 670	1 900	2 390	3 020	4 410
	PAN 37	5,5	2 400	—	1 880	2 260	2 820	3 520	4 680
	PA 39	6,0	3 900	1 280	1 600	1 990	2 470	3 060	4 320
	PA 40	7,0	4 100	—	1 080	1 400	1 850	2 340	3 070
	PA 43	9,0	3 900	1 060	1 410	1 800	2 500	3 100	4 150
	PA 45	6,5	3 700	—	1 150	1 250	1 710	2 210	3 480
	PA 52	8,0	4 600	—	900	1 210	1 590	2 060	2 700
	PAB 52	8,0	4 600	—	900	1 210	1 590	2 060	2 700
	PA 55	9,5	4 800	—	—	—	1 070	1 510	2 020
Extrusion profile	PE 41	8,5	5 900	—	1 100	1 310	1 750	2 190	3 180
	PE 55	15,0	5 900	—	—	—	1 010	1 220	1 800
PVC profile	PT 37	3,0	5 900	1 440	1 890	2 230	2 720	3 170	4 550
	PT 52	4,3	2 600	—	840	1 160	1 590	2 060	2 650








## Maximum dimensions of external roller shutters with integrated insect screen MKT for available profiles

MAXIMUM EXTERNAL ROLLER SHUTTER DIMENSIONS [mm]									
Type and profile model	max area [m <sup>2</sup> ]	max width [mm]	Maximum height up to [mm]						
			125	137	150	165	180	205	
			SP + MKT, SP-E + MKT						
Foam-filled profile	PA 37	6,0	3 500	—	—	1 660	1 610	2 390	2 500
	PAN 37	5,5	2 400	—	—	1 260	1 930	2 500	2 500
	PA 39	6,0	2 000	—	—	1 330	1 850	2 440	2 500
	PA 40	7,0	2 000	—	—	890	1 250	1 700	2 500
	PA 43	9,0	2 000	—	—	1 070	1 600	2 460	2 500
	PA 45	6,5	2 000	—	—	890	1 350	1 710	2 500
	PA 52	—	—	—	—	—	—	—	—
	PAB 52	—	—	—	—	—	—	—	—
	PA 55	—	—	—	—	—	—	—	—
Extrusion profile	PE41	8,5	2 000	—	—	900	1 230	1 650	2 500
	PE 55	—	—	—	—	—	—	—	—
PVC profile	PT 37	3,0	1 700	—	—	1 270	1 870	2 500	2 500
	PT 52	—	—	—	—	—	—	—	—



PROFILES		NAME	GUIDE RAILS													
			PVC profile		Aluminium profile with polyurethane foam										Extruded aluminium profile	
			PT 37	PT 52	PA 37	PAN 37	PA 39	PA 40	PA 43	PA 45	PA 52	PAB 52	PA 55	PE 41	PE 55	
PP 53		Straight guide rail	■		■	■	■	■	■	■					■	
PP 53/ODS 12 mm 20 mm		Straight guide rail with offset	■		■			■	■	■	■				■	
PK 53 60 mm 120 mm		Corner guide rail	■		■			■	■	■	■				■	
PPMO 53		Straight guide rail with offset for insect screen	■		■			■	■	■	■				■	
PPDO 53		Guide rail Double	■		■	■	■	■	■	■					■	
D/PP		Aluminium spacer for guide rails PP53, PK53, PPDO53	■		■			■	■	■	■				■	
PPD 79		Straight guide rail double chamber	■		■	■	■	■	■	■					■	
PPD79/ODS 12 mm 20 mm		Straight guide rail two-chamber with offset	■		■			■	■	■	■				■	
PPDMO 79		Straight guide rail two-chamber with offset for insect screen	■		■			■	■	■	■				■	
PPDO 79		Straight guide rail two-chamber with insect screen	■		■	■	■	■	■	■					■	
PU 29		Simplified guide rail compatible with PP 53	■		■			■	■	■	■				■	
PP 45		Straight guide rail			■			■	■	■	■					
PP 68		Straight guide rail	■		■			■	■	■	■				■	
PP 66		Straight guide rail		■								■	■	■		■
PPW 66		Reinforced straight guide rail													■	
PPW 66/ODS		Straight guide rail reinforced with offset													■	
PPW 80		Straight reinforced guide rail														■

# CONCEALED ROLLER SHUTTER SYSTEM

BOTTOM RAIL			ROLLER SHUTTER PROFILE												
			PVC profile		Aluminium profile with polyurethane foam										Extruded aluminium profile
CODE	HEIGHT		PT 37	PT 52	PA 37	PAN 37	PA 39	PA 40	PA 43	PA 45	PA 52	PAB 52	PA 55	PE 41	PE 55
LDG 40	35 mm		■		■	■	■	■	■	■				■	
LDG-E	51 mm		■		■	■	■	■	■	■				■	
LDG	51 mm		■		■	■	■	■	■	■				■	
LDG 52	52 mm			■								■	■		
LDG 52/OPT	52 mm			■								■	■		
LDG 55	55 mm													■	■
LDG/S	55 mm													■	■



# BURGLAR-RESISTANT ROLLER SHUTTER SYSTEM

## KEY FEATURES

- Application: existing or newly constructed buildings
- Installation: onto the wall, within the reveal (installation onto joinery) or within the lintel
- Box construction: bent aluminium sheet (SK, SKP, SKO-P, SP-E) or extruded aluminium (SKE, SKO or SP). In concealed systems, the box front panel serves as a base for finishing materials
- Roller shutter curtain:
  - extruded profiles PE41 (class RC2) and PE55 (class RC3)
- Functionality: RC3 or RC2 burglary resistance class
- Tests: wind load resistance, air permeability, thermal resistance, acoustic insulation, burglary resistance (IFT Rosenheim)
- Colours: Roller shutter profiles can be powder-coated in any colour from the RAL palette; decorative coatings, including wood-effect finishes, are also available
- Operation: electric

## Extruded aluminium roller shutter boxes (RC2 and RC3)



## Aluminium sheet roller shutter boxes (RC3)



## SAFETY PLUS



Strong curtain made of PE41 extruded profiles



Reinforced guide rail construction

The ratchet system in the bottom rail makes it difficult to lift the curtain in the event of a manual break-in attempt from below

## SAFETY PREMIUM

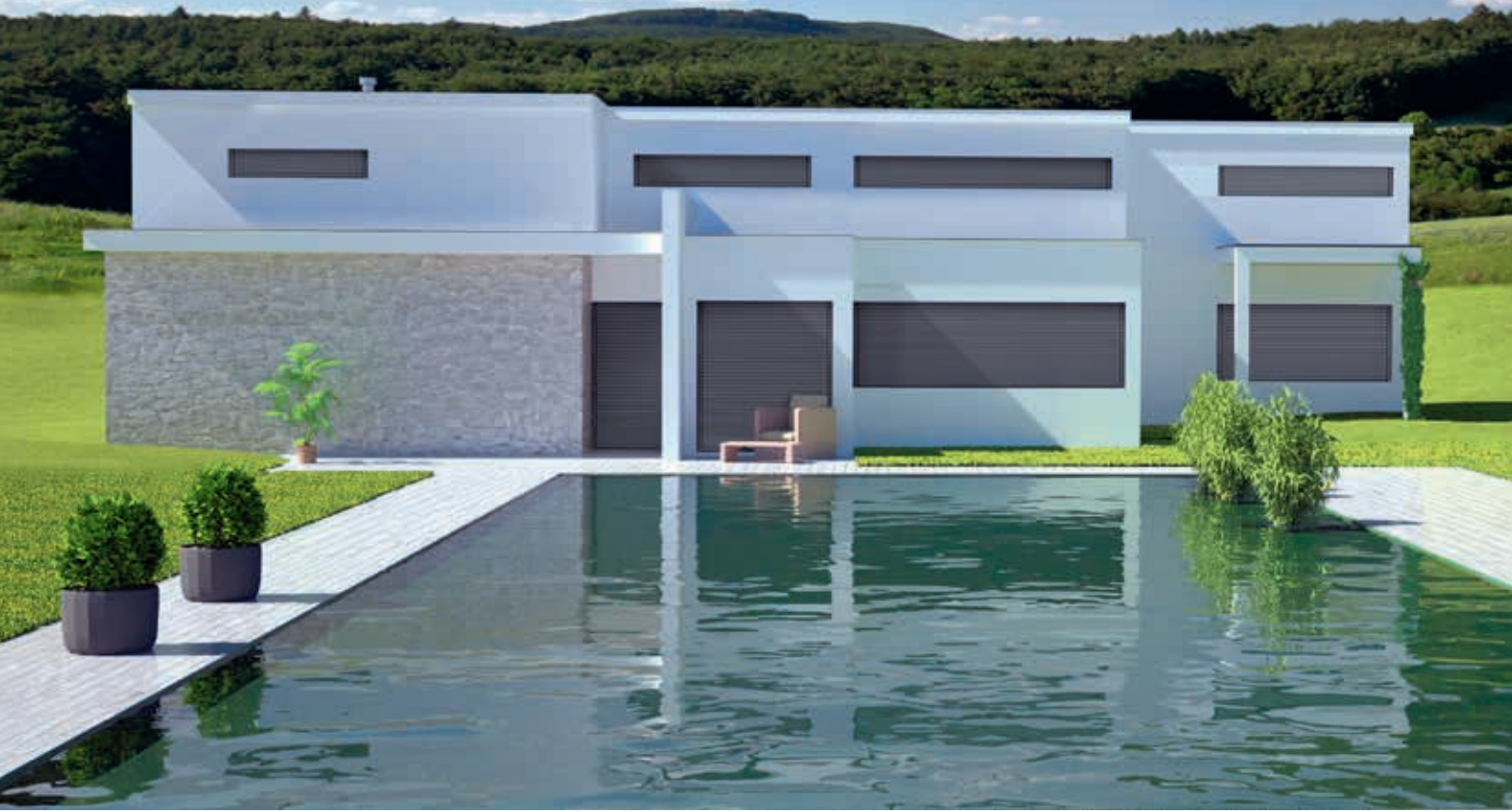



Reinforced guide rail construction

Bottom rail reinforcement

Patented locking pawl mechanism at the bottom of the roller shutter to prevent attempts to lift the roller shutter curtain

Strong curtain made of PE55 extruded profiles

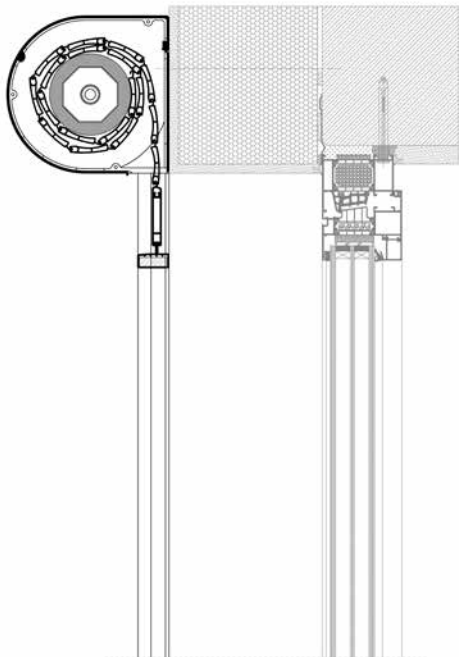


COMPONENTS	RC2	RC3
Roller shutter profile	PE 41 	PE 55 
Guide rail	PPW 66 	PPW 80 
	PPW66/ODS 	PPW 90 
Hanger	Locking hanger 	
Control system	Electric actuator 	
Bottom rail reinforcement	LDG 41/W + W-LDG 41/W 	LDG 55/W + W-LDG 55/W 
Anti-burglary assembly	ZA PE 41 	ZA PE 55 
Box size	165, 180, 205	180, 205, 230, 250 oraz 300
Insect screen	It is not possible to install a retractable insect screen within the roller shutter box. A separate insect screen can be installed in front of the roller shutter curtain.	

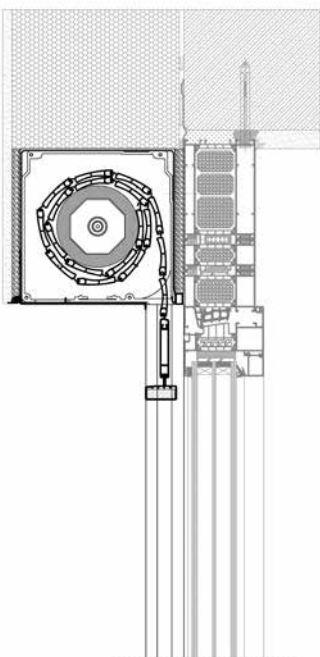
DIMENSIONS	RC2	RC3
Maximum width	2 600 mm	2 800 mm
Maximum height	2 790 mm	1 800 mm
Maximum area	7,25 m <sup>2</sup>	4,30 m <sup>2</sup>

Example of installation in a double-layer wall

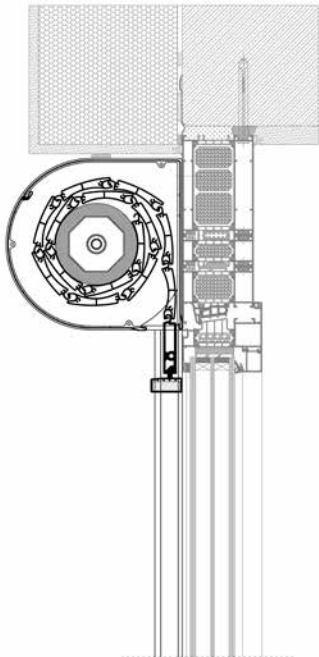
SAFETY PLUS in SKO



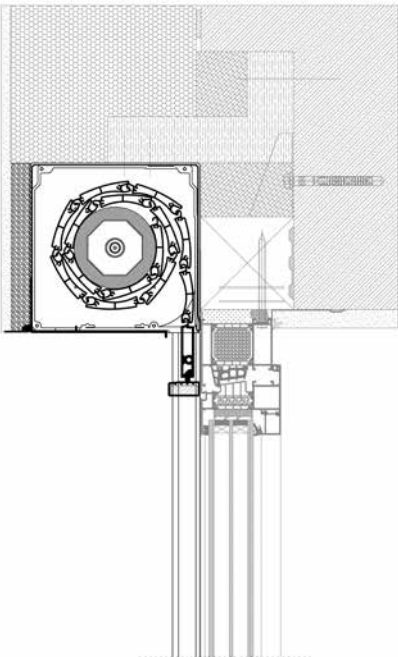
SAFETY PLUS in SP-E



SAFETY PREMIUM in SKO-P



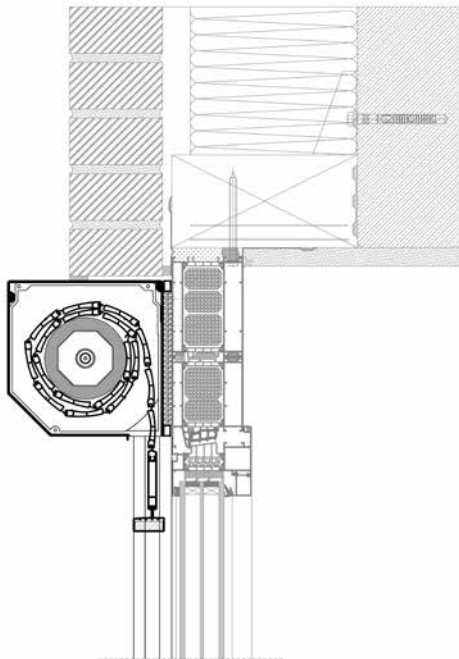
SAFETY PREMIUM in SP-E



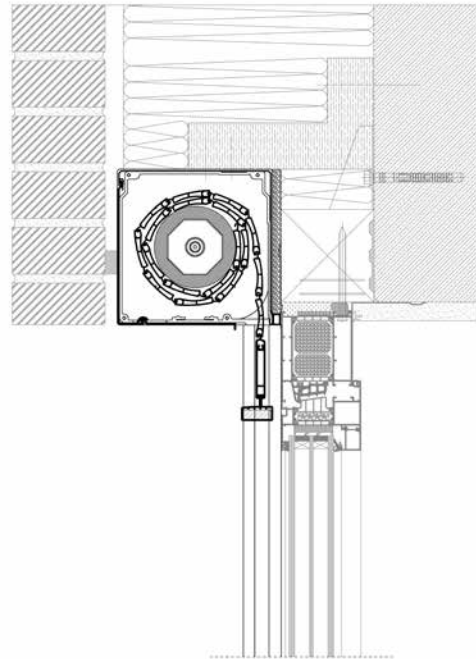


Example of installation in a three-layer wall

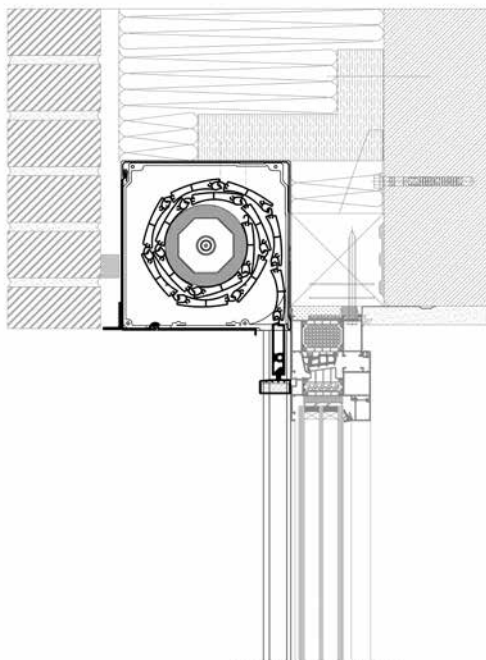
SAFETY PLUS in SKE



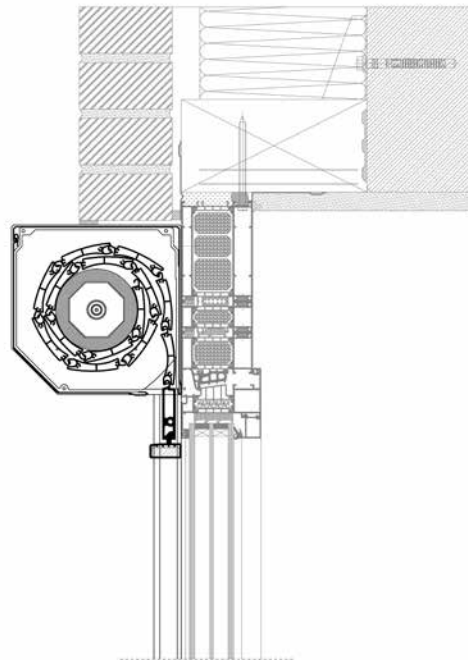
SAFETY PLUS in SP



SAFETY PREMIUM in SP



SAFETY PREMIUM in SK



# SKT OPOTERM TOP-MOUNTED ROLLER SHUTTER SYSTEMS

## KEY FEATURES

- **Application:** new buildings or window replacement projects
- **Installation:** directly onto the window frame using an appropriately selected adapter profile. Installation is possible without enclosure, or with partial or full enclosure; the box front panel also serves as a substrate for finishing materials
- **Box construction:** high-quality PVC components with additional internal insulation to improve thermal performance
- **Roller shutter curtain:**
  - › PA profiles made of high-quality aluminium sheet filled with polyurethane foam, with a special two-layer coating systems in the PU/PA system. Available profiles: PA 37/PAN 37/PA 39/PA 40/PA 43/PA 45/PA 52/PAB 52/PA 55
  - › PT 37 and PT 52 plastic profiles
- **Functionality:**
  - › option to integrate MKT insect screen
  - › two inspection options: access from below or from the front of the box, including prior to the final installation of the complete roller shutter
  - › option to manufacture a single roller shutter or a set of roller shutters within one box
  - › thanks to the use of PPMO 60/12 and PPMO 60/17 guide rails, collision-free installation of pleated insect screen systems such as MPH Harmony and MPH Verti is possible
- **Tests:** acoustic performance, wind load resistance, thermal resistance, testing of the box thermal transmittance coefficient; ift rosenheim certification
- **Colours:** wide range of PA profile colours available within the standard palette, with wood-effect finishes also offered
- **Operation:** manual or electric

SKT



SKT MKT



### SKT OPOTERM variants

SKT NOVA



SKT RENO

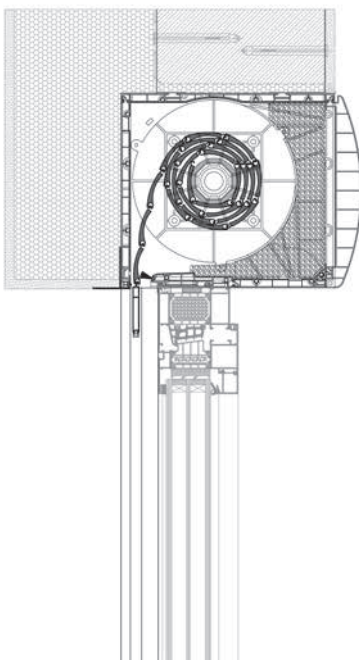


SKT MONOBLOCK

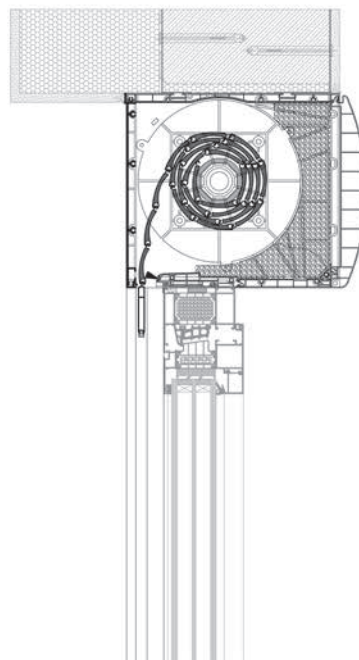


## Example of installation in a double-layer wall

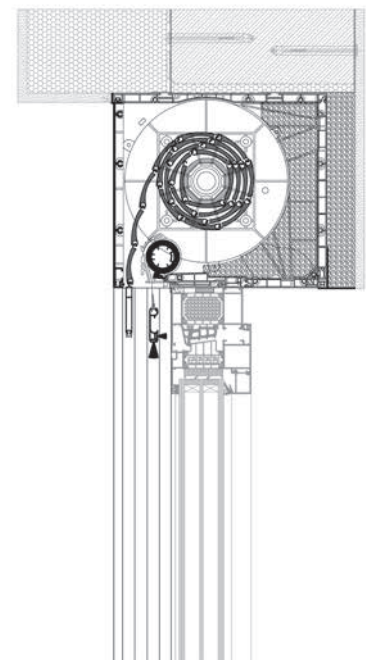
SKT + PSBO



SKT + PSBA + PSBO



SKT NOVA + PSBA





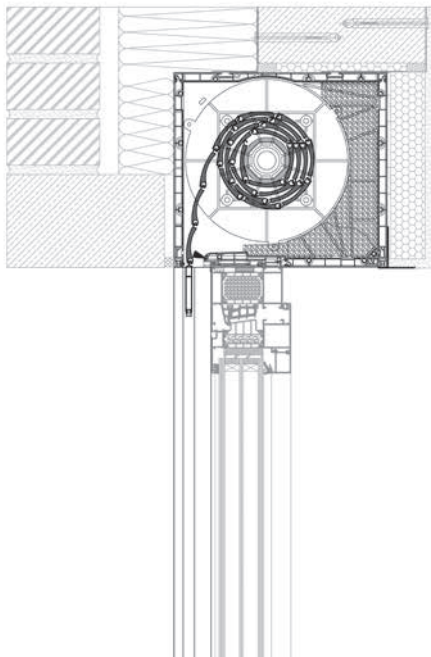
**SKT OPOTERM NOVA** – compared to the standard version of the SKT OPOTERM system, the integrated insect screen is positioned beneath the roller shutter curtain, allowing it to be installed closer to the window frame.

**SKT OPOTERM RENO** – designed for the French market, where existing reveals are retained as load-bearing elements during renovation. The Z-shaped box is compatible with all renovation frames featuring fins with a width of 25–110 mm. The system is available exclusively without an insect screen.

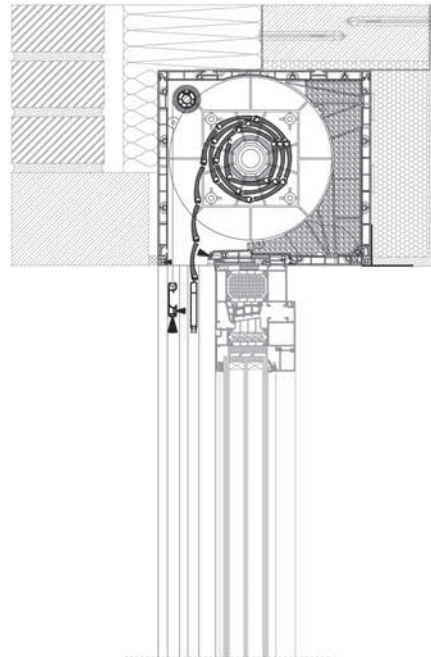
**SKT OPOTERM MONOBLOCK** – a system solution with guide rails adapted for the installation of roller shutters on monoblock frames. This product is characterised by its compact dimensions and the absence of additional fixing elements.

### Example of installation in a three-layer wall

SKT



SKT+MKT



# SKT OPOTERM TOP-MOUNTED ROLLER SHUTTER SYSTEMS

## Maximum dimensions of external roller shutters for available profiles

MAXIMUM DIMENSIONS [mm]						
Type and profile model	max area [m <sup>2</sup> ]	max width [mm]	SKT			
			230/170 (OC) 230/210(OC+)	230/210 (OC) 255/240 (OC+)	255/240 (OC)	
Foam-filled profile	PA 37	6,0	3 500	1 760	3 300	4 720
	PAN 37	5,5	2 400	2 050	3 580	4 730
	PA 39	6,0	3 900	1 890	3 310	4 770
	PA 40	7,0	4 100	1 290	2 430	3 490
	PA 43	9,0	3 900	1 770	3 250	4 680
	PA 45	6,5	3 700	1 440	2 590	3 860
	PA 52	8,0	4 600	1 170	2 280	3 230
	PAB 52	8,0	4 600	1 170	2 280	3 230
	PA 55	9,5	4 800	790	1 580	2 370
Extrusion profile	PE 41	—	—	—	—	—
	PE 55	—	—	—	—	—
PVC-profile	PT 37	3,0	1 700	2 090	3 630	5 000
	PT 52	4,3	2 600	1 380	1 820	2 660

## Maximum dimensions of external roller shutters with integrated insect screen MKT for available profiles

MAXIMUM DIMENSIONS [mm]						
Type and profile model	max area [m <sup>2</sup> ]	max width [mm]	SKT + MKT			
			230/170 (OCM)	230/210 (OCM)	255/240 (OCM)	
Foam-filled profile	PA 37	5,0	2 000	1 540	1 410	2 500
	PAN 37	5,0	2 000	1 710	2 500	2 500
	PA 39	5,0	2 000	1 600	2 490	2 500
	PA 40	5,0	2 000	1 090	1 670	2 500
	PA 43	5,0	2 000	1 520	2 390	2 500
	PA 45	5,0	2 000	1 260	1 730	2 500
	PA 52	5,0	2 000	910	1 450	2 450
	PAB 52	5,0	2 000	910	1 450	2 450
	PA 55	5,0	2 000	630	1 030	2 200
Extrusion profile	PE 41	—	—	—	—	—
	PE 55	—	—	—	—	—
PVC-profile	PT37	3,0	1 700	1 690	2 500	2 500
	PT 52	4,3	2 000	960	1 710	2 500



Maximum dimensions of external roller shutters with integrated insect screen MKT for available profiles

MAXIMUM DIMENSIONS [mm]						
Type and profile model	max area [m <sup>2</sup> ]	max width [mm]	SKT NOVA + MKT			
			230/170 (OCM)	230/210 (OCM)	255/240 (OCM)	
Foam-filled profile	PA37	5,0	2 000	1 490	2 470	2 600
	PAN37	5,0	2 000	1 640	2 470	2 600
	PA39	5,0	2 000	1 550	2 450	2 600
	PA40	5,0	2 000	1 010	1 790	2 600
	PA43	5,0	2 000	1 290	2 430	2 600
	PA45	5,0	2 000	1 080	1 860	2 600
	PA52	5,0	2 000	550	1 610	2 600
	PAB52	5,0	2 000	550	1 610	2 600
	PA55	5,0	2 000	580	990	1 990
Extrusion profile	PE41	—	—	—	—	—
	PE55	—	—	—	—	—
PVC-profile	PT37	3,0	1 700	1 530	2 600	2 600
	PT52	4,3	2 000	810	1 610	2 600

# SKT OPOTERM TOP-MOUNTED ROLLER SHUTTER SYSTEMS

PROFILES  GUIDE RAILS		SKT	SKT Nova	SKT Monoblock	SKT Reno	NAME	PVC profile		Aluminium profile with polyurethane foam								
							PT 37	PT 52	PA 37	PAN 37	PA 39	PA 40	PA 43	PA 45	PA 52	PAB 52	PA 55
							PP 60/12		■			■	Mini guide rail with seal	■		■	■
PPD 60/12		■			■	Mini double-chamber guide rail with seal	■		■	■	■	■	■	■			
PPD-P 60/12		■			■	Mini double-chamber guide rail with seal - division	■		■	■	■	■	■	■			
PPA 35/12		■			■	Narrow mini aluminium guide rail with seal	■		■	■	■	■	■	■			
PPDA 60/12		■			■	Mini aluminium guide rail with seal	■		■	■	■	■	■	■			
PPDA-P 60/12		■			■	Mini aluminium guide rail with seal - division	■		■	■	■	■	■	■			
PPM 60/12		■				Mini MKT guide rail with seal	■		■	■	■	■	■	■			
PP AM 35/12		■				MKT narrow mini aluminium guide rail with seal	■		■	■	■	■	■	■			
PP DM 60/12		■				MKT mini double-chamber guide rail with seal	■		■	■	■	■	■	■			
PP DM-P 60/12		■				MKT mini double-chamber guide rail with seal - division	■		■	■	■	■	■	■			
PPD MW 60/12			■			MKT mini double-chamber guide rail with seal	■		■	■	■	■	■	■			
PPD MW-P 60/12			■			MKT mini double-chamber guide rail with seal - division	■		■	■	■	■	■	■			
PPD AMW 60/12			■			MKT mini double-chamber guide rail aluminium with seal	■		■	■	■	■	■	■			
PPMO 60/12			■			Straight guide rail with offset for insect screen	■		■	■	■	■	■	■			
PP38/12				■		Mini guide rail with seal	■		■	■	■	■	■	■			
PPAMB35/12				■		Mini aluminium guide rail with seal	■		■	■	■	■	■	■			
PP 60/17		■			■	Maxi guide rail with seal		■							■	■	■
PPD 60/17		■			■	Maxi double-chamber guide rail with seal		■							■	■	■
PPD-P 60/17		■			■	Maxi double-chamber guide rail with seal - division		■							■	■	■
PPDA 60/17		■			■	Maxi aluminium guide rail with seal		■							■	■	■
PPDA-P 60/17		■			■	Maxi aluminium guide rail with seal - division		■							■	■	■
PPM 60/17		■			■	Maxi aluminium guide rail with seal		■							■	■	■



PP AM 35/17		■			MKT narrow maxi aluminium guide rail with seal	■								■	■	■
PP DM 60/17		■			MKT maxi double-chamber guide rail with seal	■								■	■	■
PP DM-P 60/17		■			MKT maxi double-chamber guide rail with seal - division	■								■	■	■
PPD MW 60/17			■		MKT maxi double-chamber guide rail with seal	■								■	■	■
PPD MW-P 60/17			■		MKT maxi double-chamber guide rail with seal - division	■								■	■	■
PPMO 60/17			■		Straight guide rail with offset for insect screen	■								■	■	■

BOTTOM RAIL			ROLLER SHUTTER PROFILE												
			PVC profile		Aluminium profile with polyurethane foam										
CODE	HEIGHT	DESCRIPTION		PT 37	PT 52	PA 37	PAN 37	PA 39	PA 40	PA 43	PA 45	PA 52	PAB 52	PA 55	
LDG 40	35 mm	Aluminium bottom rail with rubber seal		■		■	■	■	■	■	■				
LDG-E	51 mm	Aluminium bottom rail "eco" with rubber seal		■		■	■	■	■	■	■				
LDG	51 mm	Aluminium bottom rail with rubber seal		■		■	■	■	■	■	■				
LDG 52	52 mm				■								■	■	
LDG 52/OPT	52 mm				■								■	■	
LDG 55	55 mm														■
LDG/S	55 mm														■

# SKB STYROTERM TOP-MOUNTED ROLLER SHUTTER SYSTEM

## KEY FEATURES

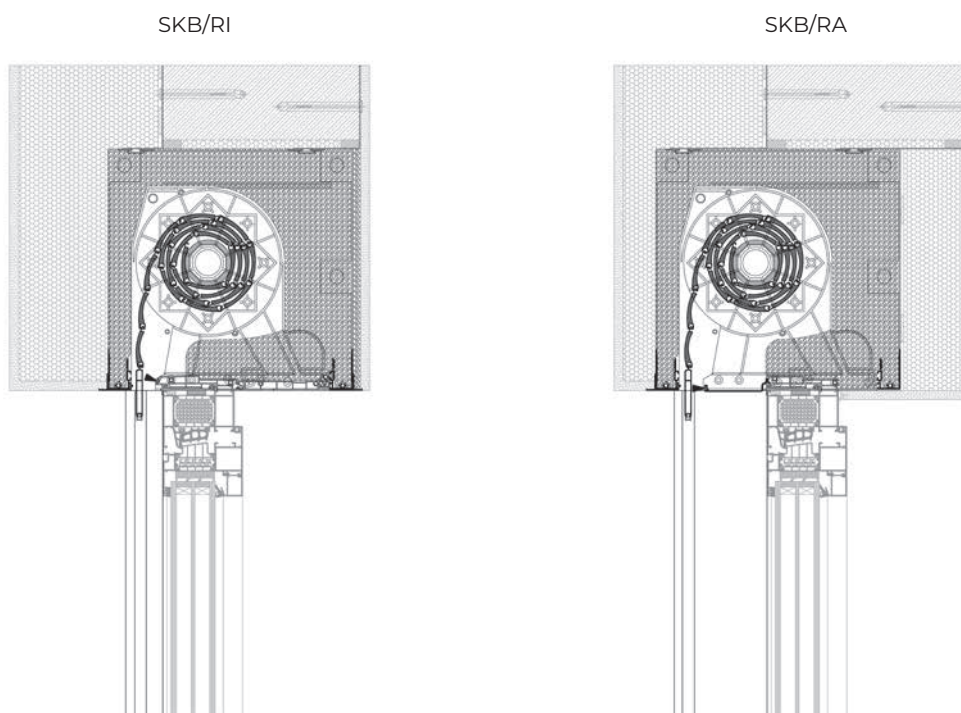
- Application: new buildings or window replacement projects
- Installation: directly onto the window frame using a suitably selected adapter profile. Installation with partial enclosure, as the box front panel also serves as a substrate for any finishing material. A VENTI variant is available, designed specifically for ventilated façades and clinker brick façades
- Box construction: manufactured from a specially developed material designed in accordance with Aluprof guidelines, characterised by very good thermal performance. The box is available in two sizes: 260×260 mm and 300×300 mm
- Roller shutter curtain:
  - PA profiles manufactured from high-quality aluminium sheet, filled with polyurethane foam and finished with a special two-layer PU/PA coating system. Available profiles: PA 37/PAN 37/PA 39/PA 40/PA 43/PA 45/PA 52/PAB 52/PA 55
  - PT 37 and PT 52 plastic profiles
  - option to use a SkyFlow façade blind package or SkyRoll screen systems
- Functionality:
  - option to integrate an MKT insect screen
  - two inspection options: access from inside or outside the room
  - option to manufacture a single roller shutter or a set of roller shutters within one box
  - thanks to the use of dedicated guide rails, collision-free installation of MPH Harmony and MPH Verti pleated insect screen systems is possible
- Tests: acoustic performance, wind load resistance, thermal resistance, testing of the box thermal transmittance coefficient; ift Rosenheim certification
- Colours: wide range of PA profile colours available within the standard palette, with wood-effect finishes also offered
- Operation: manual or electric

## SKB STYROTERM variants



Within the **SKB STYROTERM** system, the VENTI (SKB/K) variant is available, designed for use in ventilated façades and clinker brick façades. The key advantages of this solution are unrestricted air circulation and the absence of any interference with the load-bearing structure of the façade. The product also allows for integration with an insect screen. A variant designed for use with façade blinds is also available.

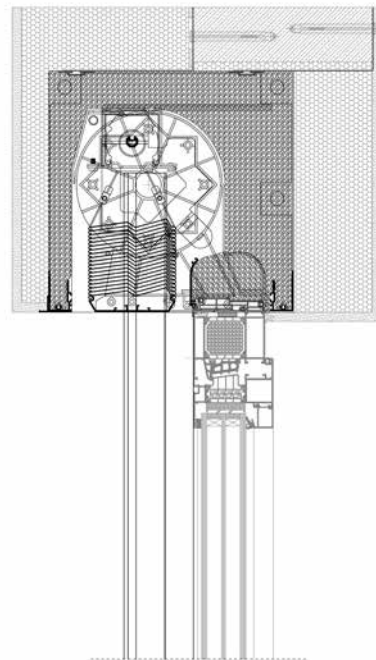
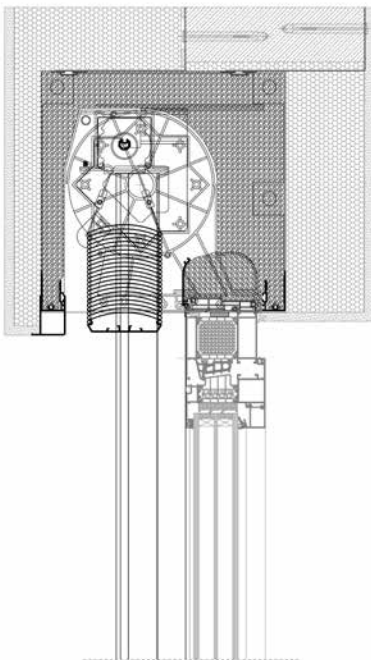
## Example of installation in a double-layer wall





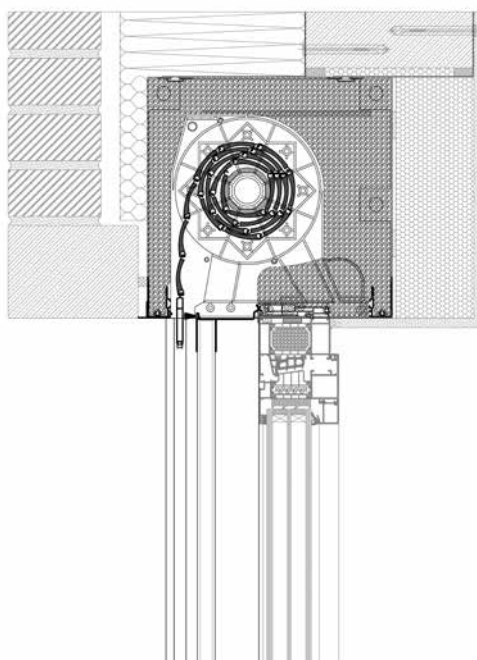
Example of installation in a double-layer wall

SKB/F

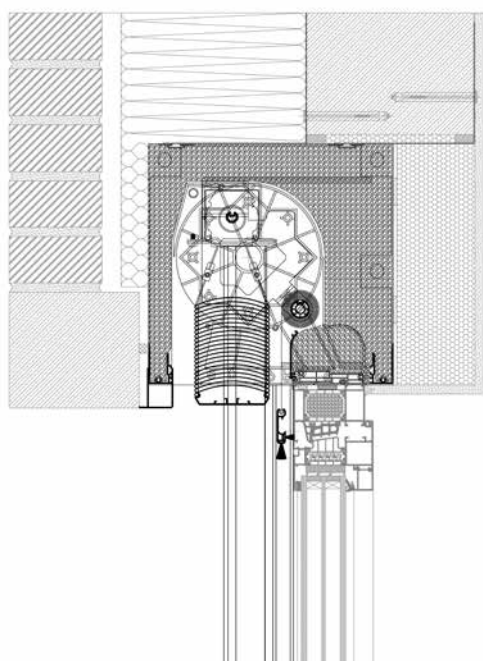


Example of installation in a three-layer wall

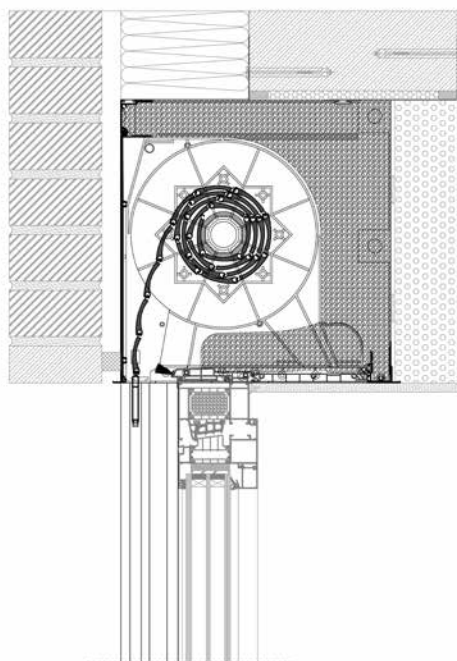
SKB/RA + MPH



SKB/F + MKT



SKB/K




























Maximum dimensions of external roller shutters for available profiles

MAXIMUM DIMENSIONS [mm]					
Type and profile model	max area [m²]	max width [mm]	SKB		
			260	300	
Foam-filled profile	PA37	6,0	3 500	2 900	4 590
	PAN37	5,5	2 400	3 010	4 830
	PA39	6,0	2 900	2 930	4 710
	PA40	7,0	4 100	2 170	3 670
	PA43	9,0	3 900	2 670	4 700
	PA45	6,5	3 700	2 280	4 060
	PA52	8,0	4 600	1 740	2 910
	PAB52	8,0	4 600	1 740	2 910
	PA55	9,5	4 800	1 070	2 130
Extrusion profile	PE41	—	—	—	—
	PE55	—	—	—	—
PVC profile	PT37	3,0	1 700	3 090	4 880
	PT52	4,3	2 600	1 900	3 110

Maximum dimensions of external roller shutters with integrated insect screen MKT for available profiles

MAXIMUM DIMENSIONS [mm]					
Type and profile model	max area [m²]	max width [mm]	SKB + MKT		
			260	300	
Foam-filled profile	PA37	6,0	2 000	2 700	2 700
	PAN37	5,5	2 000	2 700	2 700
	PA39	6,0	2 000	2 700	2 700
	PA40	7,0	2 000	2 170	2 700
	PA43	9,0	2 000	2 670	2 700
	PA45	6,5	2 000	2 280	2 700
	PA52	8,0	2 000	1 740	2 700
	PAB52	8,0	2 000	1 740	2 700
	PA55	9,5	2 000	1 180	2 130
Extrusion profile	PE41	—	—	—	—
	PE55	—	—	—	—
PVC profile	PT37	3,0	1 700	2 700	2 700
	PT52	4,3	2 000	1 900	2 700








# SKT OPOTERM TOP-MOUNTED ROLLER SHUTTER SYSTEMS

PROFILES  GUIDE RAILS		SKB RI	SKB RA	NAME	PVC profile		Aluminium profile with polyurethane foam								
					PT 37	PT 52	PA 37	PAN 37	PA 39	PA 40	PA 43	PA 45	PA 52	PAB 52	PA 55
						■		Mini guide rail with seal	■		■	■	■	■	■
	■		Mini double-chamber guide rail with seal	■		■	■	■	■	■	■				
	■		Mini double-chamber guide rail with seal - division	■		■	■	■	■	■	■				
	■		Narrow mini aluminium guide rail with seal	■		■	■	■	■	■	■				
	■		Mini aluminium guide rail with seal	■		■	■	■	■	■	■				
	■		Mini aluminium guide rail with seal - division	■		■	■	■	■	■	■				
	■		Mini MKT guide rail with seal	■		■	■	■	■	■	■				
	■		MKT mini double-chamber guide rail with seal - division	■		■	■	■	■	■	■				
	■		MKT mini double-chamber guide rail aluminium with seal	■		■	■	■	■	■	■				
	■		Straight guide rail with offset for insect screen	■		■	■	■	■	■	■				
	■		Maxi guide rail with seal		■							■	■	■	
	■		Maxi double-chamber guide rail with seal		■							■	■	■	
	■		Maxi double-chamber guide rail with seal - division		■							■	■	■	
	■		Maxi aluminium guide rail with seal		■							■	■	■	
	■		Maxi aluminium guide rail with seal - division		■							■	■	■	
	■		MKT maxi double-chamber guide rail aluminium with seal		■							■	■	■	
	■		MKT maxi double-chamber guide rail aluminium with seal - division		■							■	■	■	
	■		Straight guide rail with offset for insect screen		■							■	■	■	
		■	RA mini guide rail with seal with RA guide rail adapter	■		■	■	■	■	■	■				
		■	RA maxi guide rail with seal with RA guide rail adapter		■							■	■	■	
		■	RA mini MKT guide rail with seal with RA guide rail adapter	■		■	■	■	■	■	■				
		■	RA maxi MKT guide rail with seal with RA guide rail adapter		■							■	■	■	
		■	RA mini guide rail with seal with RA guide rail adapter - division	■		■	■	■	■	■	■				



PPMRA/12 + APPDRA79		■	RA maxi guide rail with seal with RA guide rail adapter – division	■	■	■	■	■	■	■	■			
PPARA/12 + APPARA45 + PZPSKB		■	RA mini aluminium guide rail with seal with RA aluminium guide rail adapter	■	■	■	■	■	■	■	■			
PPARA/17 + APPARA45 + PZPSKB		■	RA maxi aluminium guide rail with seal with RA aluminium guide rail adapter	■								■	■	■
PPMARA/12 + APPARA45 + PZPSKB		■	RA mini aluminium MKT guide rail with seal with RA aluminium guide rail adapter	■	■	■	■	■	■	■	■			
PPMARA/17 + APPARA45 + PZPSKB		■	RA maxi aluminium MKT guide rail with seal with RA aluminium guide rail adapter	■								■	■	■
PPMOARA/12 + APPARA45		■	Straight guide rail with offset for insect screen with RA aluminium guide rail adapter	■	■	■	■	■	■	■	■			
PPMOARA/17 + APPARA45		■	Straight guide rail with offset for insect screen with RA aluminium guide rail adapter	■								■	■	■
PPARA/12 + APPDARA79 + PZPSKB		■	RA mini aluminium guide rail with seal with RA aluminium guide rail adapter – division	■	■	■	■	■	■	■	■			
PPARA/17 + APPDARA79 + PZPSKB		■	RA maxi aluminium guide rail with seal with RA aluminium guide rail adapter – division	■	■							■	■	■
PPMARA/12 + APPDARA79 + PZPSKB		■	RA mini aluminium MKT guide rail with seal with RA aluminium guide rail adapter – division	■	■	■	■	■	■	■	■			
PPMARA/17 + APPDARA79 + PZPSKB		■	RA maxi aluminium MKT guide rail with seal with RA aluminium guide rail adapter – division	■	■							■	■	■
PPMOARA/12 + APPDARA79		■	Straight guide rail with offset for insect screen with RA aluminium guide rail adapter – division	■	■	■	■	■	■	■	■			
PPMOARA/17 + APPDARA79		■	Straight guide rail with offset for insect screen with RA aluminium guide rail adapter – division	■	■							■	■	■
PPARA/12 + APPARA45 + PZPSKB + PMAPPA45		■	RA mini guide rail with seal with RA guide rail adapter and cover profile	■	■	■	■	■	■	■	■	■	■	■
PPARA/17 + APPARA45 + PZPSKB + PMAPPA45		■	RA maxi guide rail with seal with RA guide rail adapter and cover profile	■	■							■	■	■
PPMARA/12 + APPARA45 + PZPSKB + PMAPPA45		■	RA mini MKT guide rail with seal with RA guide rail adapter and cover profile	■	■	■	■	■	■	■	■			
PPMARA/17 + APPARA45 + PZPSKB + PMAPPA45		■	RA maxi MKT guide rail with seal with RA guide rail adapter and cover profile	■	■							■	■	■
PPMOARA/12 + APPARA45 + PZPSKB + PMAPPA45		■	Straight guide rail with offset for insect screen with RA aluminium guide rail adapter and cover profile	■	■	■	■	■	■	■	■			
PPMOARA/17 + APPARA45 + PZPSKB + PMAPPA45		■	Straight guide rail with offset for insect screen with RA aluminium guide rail adapter and cover profile	■	■							■	■	■

# SKT OPOTERM TOP-MOUNTED ROLLER SHUTTER SYSTEMS

BOTTOM RAIL				ROLLER SHUTTER PROFILE											
				PVC profile		Aluminium profile with polyurethane foam									
CODE	HEIGHT	DESCRIPTION		PT 37	PT 52	PA 37	PAN 37	PA 39	PA 40	PA 43	PA 45	PA 52	PAB 52	PA 55	
LDG 40	35 mm	Aluminium bottom rail with rubber seal		■		■	■	■	■	■	■				
LDG-E	51 mm	Aluminium bottom rail "eco" with rubber seal		■		■	■	■	■	■	■				
LDG	51 mm	Aluminium bottom rail with rubber seal		■		■	■	■	■	■	■				
LDG 52	52 mm				■								■	■	
LDG 52/OPT	52 mm				■								■	■	
LDG 55	55 mm														■
LDG/S	55 mm														■



# SDZ SURFACE-MOUNTED ROLLER SHUTTER SYSTEM

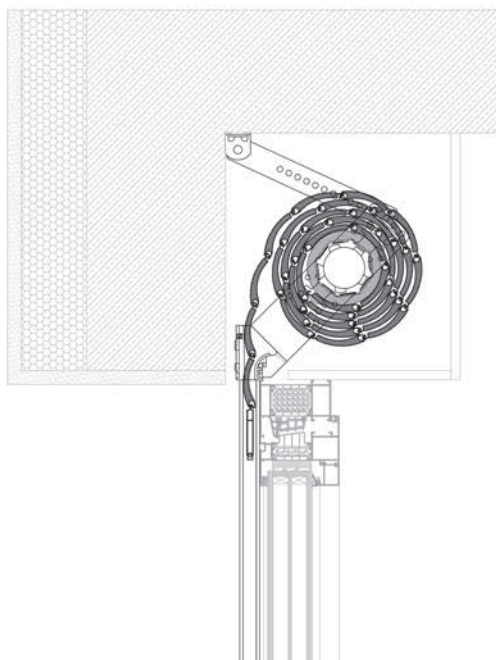
## KEY FEATURES

- **Application:** existing buildings undergoing renovation
- **Installation:** surface-mounted installation onto existing building fabric
- **Roller shutter curtain:**
  - › PA profiles manufactured from high-quality aluminium sheet, filled with polyurethane foam and finished with a special two-layer PU/PA coating system. Available profiles: PA 37/PA 39/PA 40/PA 43/PA 45/PA 52/PAB 52/PA 55
  - › PT 37 and PT 52 plastic profiles
- **Functionality:**
  - › several system configuration options are available, depending on the selected components, allowing the roller shutter to be adapted to the required functionality and installation method
- **Tests:** wind load resistance, air permeability, thermal resistance
- **Colours:** wide range of PA profile colours within the standard palette, wood-effect finishes also offered
- **Operation:** manual or electric



Example of installation in a double-layer wall

SDZ





# SDZ SURFACE-MOUNTED ROLLER SHUTTER SYSTEM

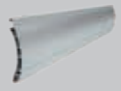
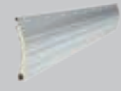


## Maximum dimensions of external roller shutters for available profiles








MAXIMUM DIMENSIONS [mm]				
Type and profile model	max area [m²]	max width [mm]	SDZ	
Foam-filled profile	PA 37	6,0	3 200	5 000
	PAN 37	—	—	—
	PA 39	6,0	3 300	5 000
	PA 40	7,0	3 800	5 000
	PA 43	9,0	3 300	5 000
	PA45	6,5	3 700	5 000
	PA 52	8,0	4 200	5 000
	PAB 52	8,0	4 200	5 000
	PA 55	9,5	4 800	5 000
Extrusion profile	PE 41	—	—	—
	PE 55	—	—	—
PVC profile	PT 37	3,0	1 700	5 000
	PT 52	4,3	2 600	5 000

## Maximum dimensions of external roller shutters with integrated insect screen MKT for available profiles

MAXIMUM DIMENSIONS [mm]				
Type and profile model	max area [m²]	max width [mm]	SDZ + MKT	
Foam-filled profile	PA 37	6,0	3 500	2 450
	PAN 37	—	—	—
	PA 39	6,0	3 900	2 490
	PA 40	7,0	4 100	1 950
	PA 43	9,0	3 900	2 600
	PA 45	6,5	3 900	1 810
	PA 52	—	—	—
	PAB 52	—	—	—
	PA 55	—	—	—
Extrusion profile	PE 41	—	—	—
	PE 55	—	—	—
PVC profile	PT 37	—	—	—
	PT 52	—	—	—



PROFILES  GUIDE RAILS		NAME											
			PVC profile		Aluminium profile with polyurethane foam								
			PT 37	PT 52	PA 37	PA 39	PA 40	PA 43	PA 45	PA 52	PAB 52	PA 55	
PU45/14/S		Simplified guide rail	■		■	■	■	■	■				
PU45/20/S		Simplified guide rail		■							■	■	■

BOTTOM RAIL				ROLLER SHUTTER PROFILE										
				PVC profile		Aluminium profile with polyurethane foam								
CODE	HEIGHT	DESCRIPTION		PT 37	PT 52	PA 37	PA 39	PA 40	PA 43	PA 45	PA 52	PAB 52	PA 55	
LDG 40	35 mm	Aluminium bottom rail with rubber seal		■		■	■	■	■	■				
LDG-E	51 mm	Aluminium bottom rail "eco" with rubber seal		■		■	■	■	■	■				
LDG	51 mm	Aluminium bottom rail with rubber seal		■		■	■	■	■	■				
LDG 52	52 mm				■							■	■	
LDG 52/OPT	52 mm				■							■	■	
LDG 55	55 mm													■
LDG/S	55 mm													■





# ROLLER SHUTTER SCREEN

# SKYTWIN ROLLER SHUTTER SCREEN SYSTEMS

## KEY FEATURES

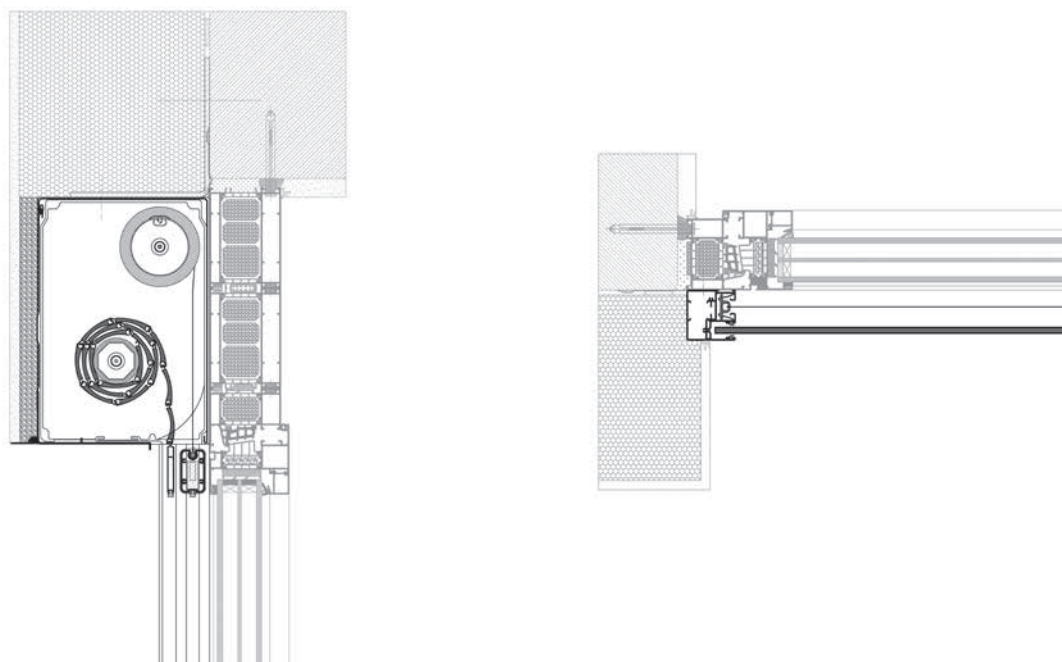
- **Application:** new buildings
- **Installation:** lintel installation; system designed for enclosure
- **Box construction:** roller shutter box with dimensions 180×260 mm, manufactured from bent aluminium sheet. Various support bracket sizes are available, allowing the system to be finished with any selected cladding material
- **Roller shutter curtain:**
  - › PA profiles manufactured from high-quality aluminium sheet, filled with polyurethane foam and finished with a special two-layer PU/PA coating system. Available profiles: PA 37/PA 39/PA 40/PA 43/PA 45
  - › extruded PE 41 profiles
  - › PT 37 plastic profiles
- **Screen shading:**
  - › option to use a screen in ZIP or Classic configuration
  - › wide range of technical fabrics with high reflective, transmissive, permeable and absorptive properties
  - › broad selection of colours and various fabric openness factors, supplied by Copaco and Serge Ferrari
- **Functionality:**
  - › shared components with Aluprof external roller shutter systems and SkyRoll screen systems, enabling optimisation of warehouse stock
  - › ZIP technology guarantees maximum sealing and protection against insects
- **Tests:** wind load resistance, air permeability, thermal resistance, acoustic insulation
- **Kolorystyka:**
  - › wide range of PA profile colours within the standard palette, with wood-effect finishes also offered
  - › extruded profiles can be powder-coated in accordance with the RAL palette; decorative coatings, including wood-effect finishes, are also available
- **Operation:** electric (two independently operating drives)



Tests carried out by Aluprof in cooperation with the Cracow University of Technology have shown that the use of the SkyTwin system can reduce heat loss through the window by up to 35%. The level of improvement in thermal comfort depends on the window's  $U_w$  thermal transmittance coefficient.

Example of installation in a double-layer wall

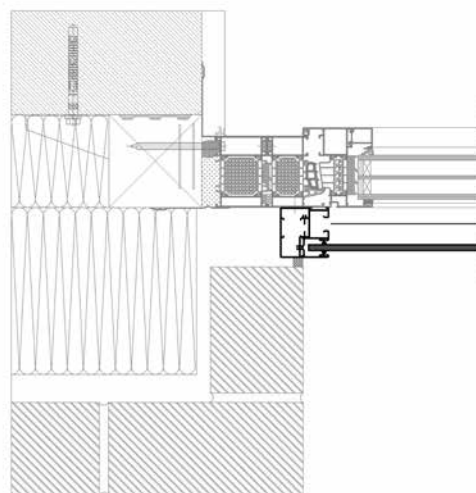
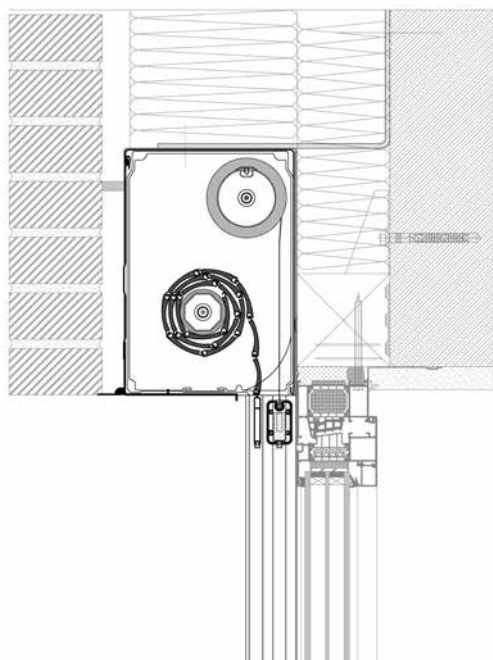
SKYTWIN version ZIP





Example of installation in a three-layer wall



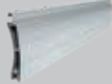


SKYTWIN version CLASSIC







# ROLLER SHUTTER SCREEN SYSTEMS

## Maximum dimensions of external roller shutters for available profiles

MAXIMUM DIMENSIONS [mm]				
Type and profile model	max area [m²]	max width [mm]	SKYTWIN	
Foam-filled profile	PA 37	6,0	3 500	2 490
	PAN 37	—	—	—
	PA 39	6,0	3 900	2 570
	PA 40	7,0	4 100	1 950
	PA 43	9,0	3 900	2 600
	PA 45	6,5	3 900	1 810
	PA 52	—	—	—
	PAB 52	—	—	—
	PA 55	—	—	—
Extrusion profile	PE 41	8,5	5 000	1 850
	PE 55	—	—	—
PVC profile	PT 37	3,0	1 700	2 820
	PT 52	—	—	—

PROFILES GUIDE RAILS	NAME	VARIANT											
			PVC profile	Aluminium profile with polyurethane foam					Extruded aluminium profile				
			PT 37	PA 37	PA 39	PA 40	PA 43	PA 45	PE 41				
APPA/R/SRS + PPA/R/SRS/14 + NZIP lub ZNIP/A		Guide rail adapter + straight guide rail + one of the available tensioner variants	ZIP	■	■	■	■	■	■	■	■	■	■
APPA/R/SRS + PPA/R/SRS/14		Guide rail adapter + straight guide rail	CLASSIC	■	■	■	■	■	■	■	■	■	■

BOTTOM RAIL			ROLLER SHUTTER PROFILE											
			PVC profile		Aluminium profile with polyurethane foam									Extruded aluminium profile
CODE	HEIGHT		PT 37	PT 52	PA 37	PA 39	PA 40	PA 43	PA 45	PA 52	PAB 52	PA 55	PE 41	PE 55
LDG 40	35 mm		■		■	■	■	■	■				■	
LDG-E	51 mm		■		■	■	■	■	■				■	
LDG	51 mm		■		■	■	■	■	■				■	







# SCREEN SYSTEMS

# SKYROLL SCREEN SYSTEMS

## KEY FEATURES

- **Application:** existing and newly constructed buildings
- **Installation:** depending on the selected option: onto the building wall or within the reveal (installation onto joinery), within the lintel, or directly mounted onto the window frame
- **Box construction:** depending on the selected variant: aluminium sheet, extruded aluminium, PVC or Styroterm
- **Screen shading:**
  - › wide range of technical fabrics featuring high reflective, transmissive, permeable and absorptive properties
  - › broad selection of colours and various fabric openness factors, supplied by Copaco and Serge Ferrari
- **Functionality:**
  - › roller shutters are equipped with a telescopic adaptor for the winding tube, providing installers with fast installation and removal, as well as non-invasive service access
  - › ZIP technology ensures maximum sealing performance and protects the interior against insect ingress
- **Tests:** wind load resistance, thermal resistance
- **Colours:** wide range of colours available within the standard palette. Colour coatings for extruded components are applied using powder coating technology; decorative finishes, including wood-effect finishes, are also available
- **Operation:** electric and manual (manual operation available only in the ECO version, in the form of a spring-operated system)

SRS 90



SRS 90\_SP



SRS / SKB



SRS / SKT



Tensioner N ZIP S



Tensioner N ZIP/A

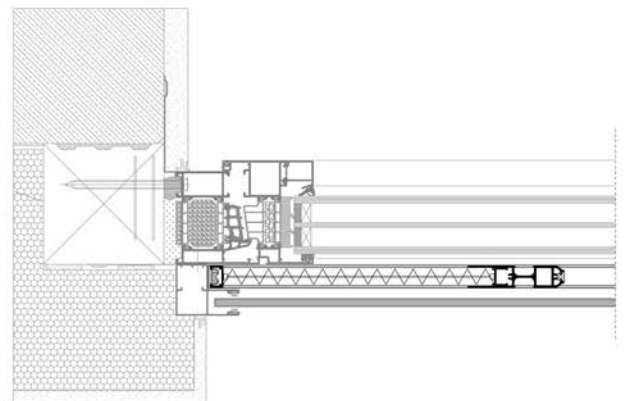
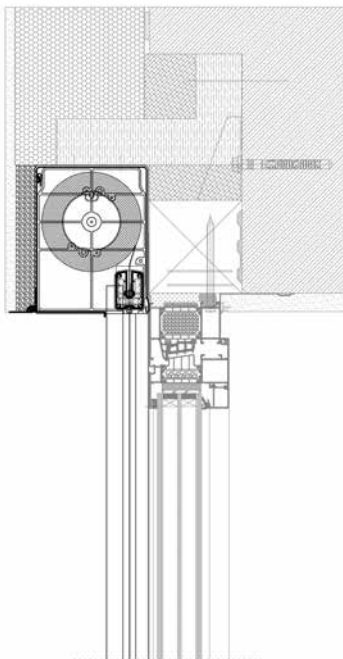


VARIANT	SRS 90	SRS 90_SP	TOP-MOUNTED SKB STYROTERM	TOP-MOUNTED SKT OPOTERM
<p>ZIP</p>	■	■	■	■
<p>CLASSIC</p>	■	■	■	■
<p>ECO</p>	■	■		



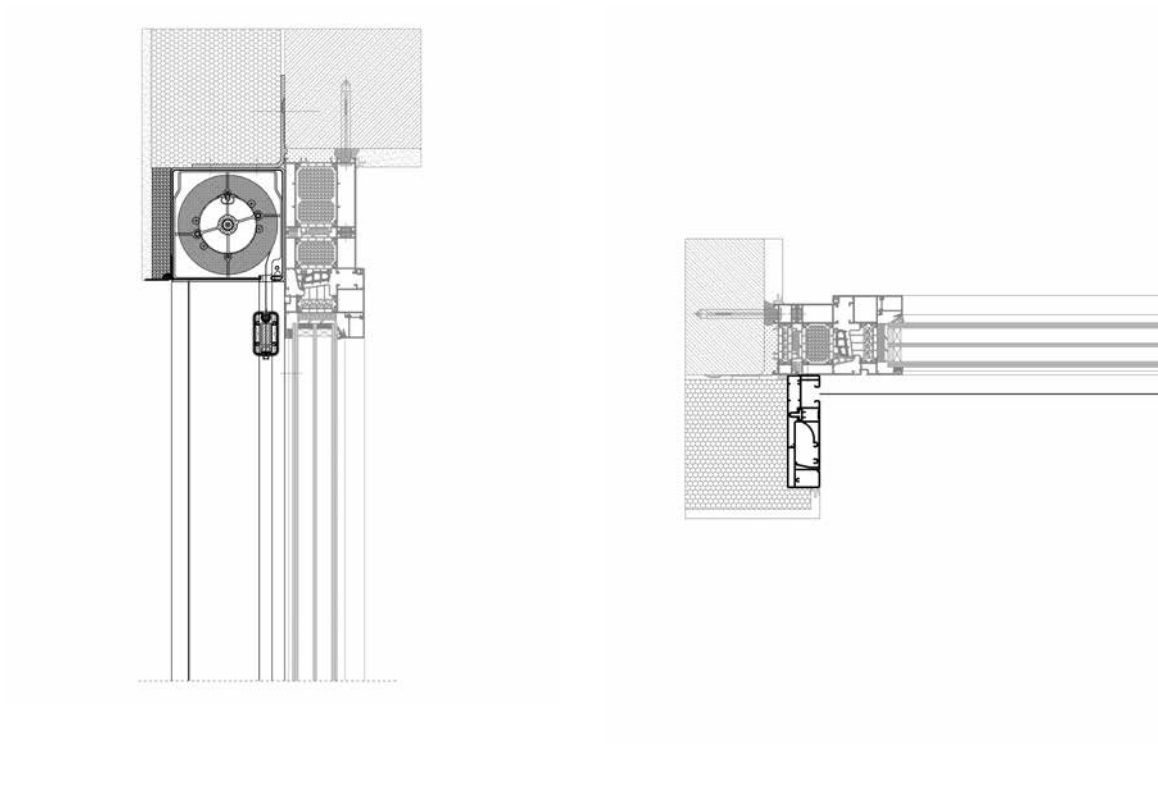
Example of installation in a double-layer wall

SRS 90\_SP ZIP



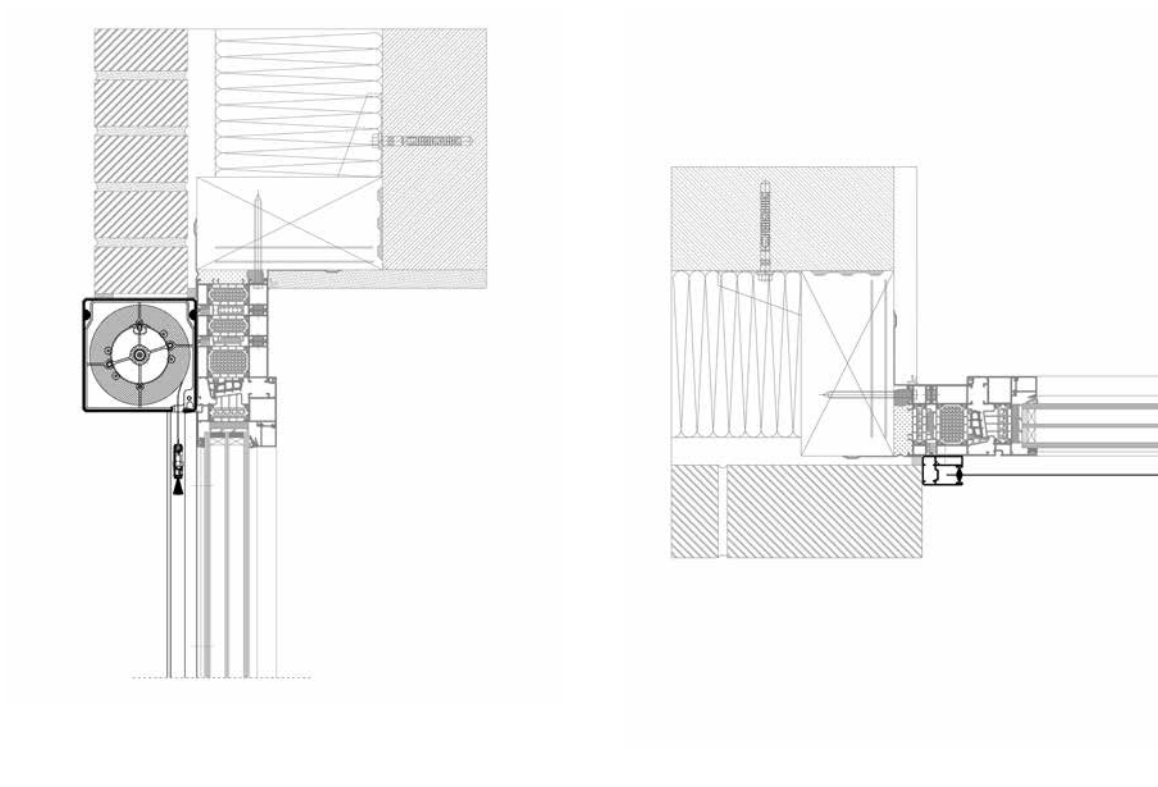
Example of installation in a double-layer wall

SRS 90\_SP CLASSIC



Example of installation in a three-layer wall

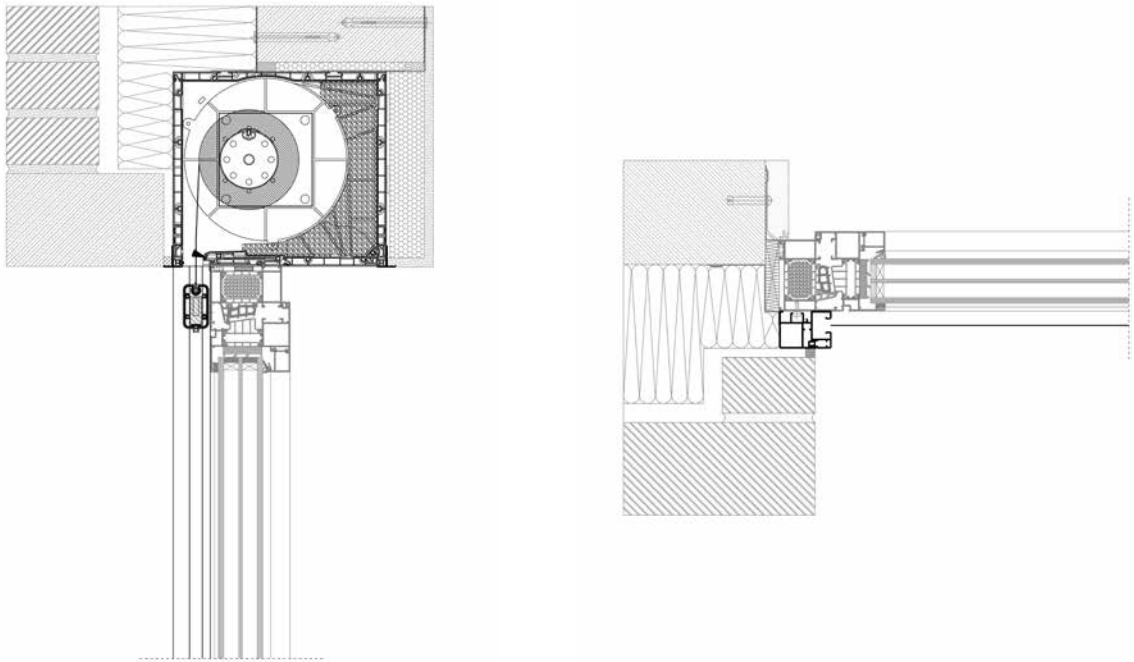
SRS 90\_E ECO





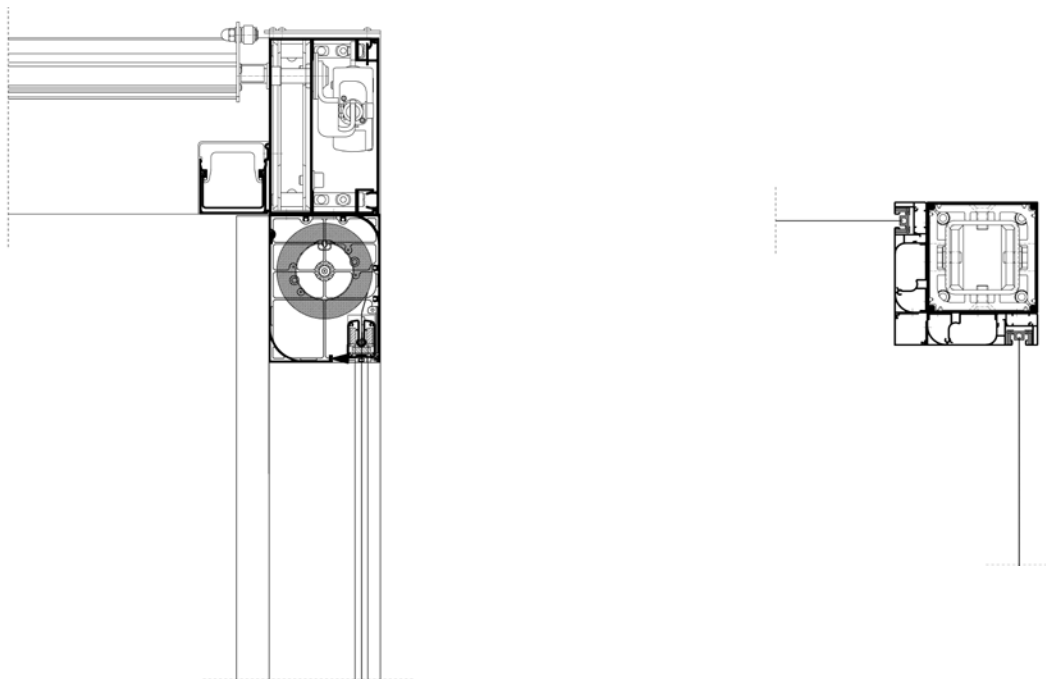
Example of installation in a three-layer wall

SKT CLASSIC



Example of installation on a pergola

SRS90ES/120/160



MAXIMUM DIMENSIONS					
Variant			Maximum width [mm]	Maximum height [mm]	Maximum area [m <sup>2</sup> ]
ZIP	SRS90	Actuator	3 000	5 000	15
	SRS90/2				
	SRS90E		5 000	5 000	16
	SRS90E/2				
	SRS90_SP		3 000	5 000	15
	SRS90_SP/2				
	SRS90E_SP		5 000	4 800	16
	SRS90ES/100				
	SRS90ES/120/160				
CLASSIC	SRS90	Actuator	3 000	5 000	15
	SRS90/2				
	SRS90E		5 000	5 000	16
	SRS90E/2				
	SRS90_SP		3 000	5 000	15
	SRS90_SP/2				
	SRS90E_SP		5 000	4 800	16
	SRS90ES/100				
	SRS90				
	SRS90/2				
	SRS90E				
	SRS90E/2				
	SRS90_SP				
	SRS90_SP/2				
	SRS90E_SP				
SRS90ES/100					
ECO	SRS90	Spring	2 000	2 500	5
	SRS90/2				
	SRS90E				
	SRS90E/2				
	SRS90_SP				
	SRS90_SP/2				
	SRS90E_SP				
	SRS90ES/100				



GUIDE RAILS

Variant	ZIP		CLASSIC		ECO	
SRS90, SRS90_SP		PPZ SRS/35/T+PPZ SRS/P+N ZIP/A		PPZ SRS/35/T+PPZ SRS/P		PP SRS/43
		PPZD SRS/56/T+PPZ SRS/P+N ZIP/A		PPZD SRS/56/T+PPZ SRS/P		
		PP SRS/A/35/T+PP SRS/P+N ZIP/A		PP SRS/A/35/T+PP SRS/P		
		PPD SRS/A/56/T+PP SRS/P+N ZIP/A		PPD SRS/A/56/T+PP SRS/P		
		PP SRS/35/T+PP SRS/P+N ZIP/A		PP SRS/35/T+PP SRS/P		
		PPD SRS/56/T+PP SRS/P+N ZIP/A		PPD SRS/56/T+PP SRS/P		
		PPZ SRS/35/T+PPZ SRS/P+N ZIP S				
		PPZD SRS/56/T+PP ZSRS/P+N ZIP S				
		PP SRS/A/35/T+PP SRS/P+N ZIP S				
		PPD SRS/A/56/T+PP SRS/P+N ZIP S				
		PP SRS/35/T+PP SRS/P+N ZIP S				
		PPD SRS/56/T+PP SRS/P+N ZIP S				
	SRS90_SP		PP SRS/35/120/T+PP RS/35/120/P+N ZIP/A		PPSRS/35/120/T+PP SRS/35/120/P	
		PP SRS/35/120/T+PP SRS/35/120/P+N ZIP S				
SKT, SKB/RI		PPZ SRS/56/T+ PP SRS/P+ N ZIP/A		PPZ SRS/56/T+ PP SRS/P		
		PPDZ SRS/56/T + PP SRS/P + N ZIP/A		PPDZ SRS/56/T + PP SRS/P		
		PPZ SRS/56/T+ PP SRS/P + N ZIP S				
		PPDZ SRS/56/T + PP SRS/P + N ZIP S				
SKB/RA		PPARA/SRS + APPARA 45 + N ZIP/A		PPARA/SRS + APPARA 45		
		PPARA/SRS + APPDARA 79 + N ZIP/A		PPARA/SRS + APPDARA 79		
		PPARA/SRS + APPARA 45 + N ZIP S				
		PPARA/SRS + APPDARA 79 + N ZIP S				



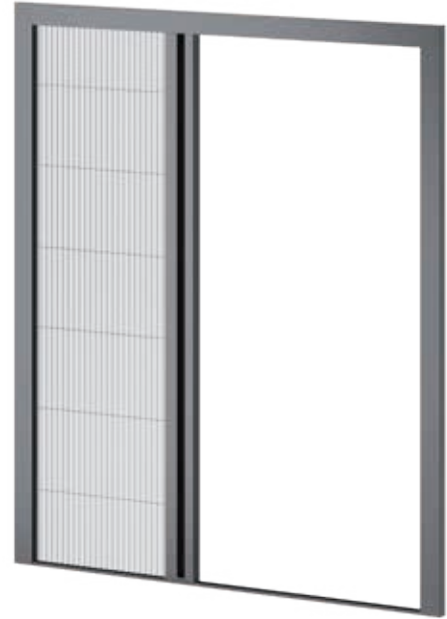


# INSECT SCREENS

# MPH HARMONY PLEATED INSECT SCREEN SYSTEM

## KEY FEATURES

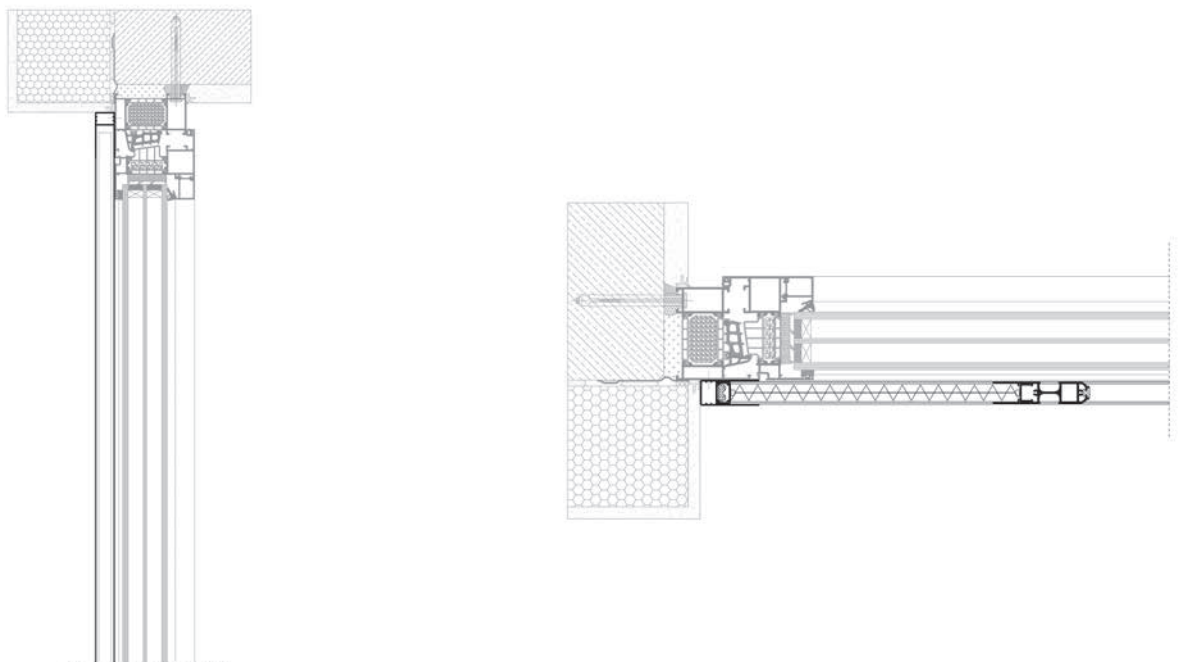
- **Application:** existing and newly constructed buildings
- **Installation:** wall-mounted, recess installation, or installation on patio doors
- **Construction:** extruded aluminium
- **Insect screen mesh:**
  - › pleated mesh that folds into an accordion shape when closing and retracts into the side profile
  - › option for independent adjustment of the tension of each guiding cord, ensuring stable and even positioning of the mesh
  - › two mesh colour options: grey and black
- **Functionality:**
  - › very smooth and light operation, requiring minimal effort during use
  - › the product does not restrict outward visibility
  - › low threshold allowing unobstructed passage
  - › compatible with Aluprof roller shutter systems
- **Tests:** wind load resistance
- **Colours:** colour finishes for extruded components are applied using powder coating technology; decorative finishes, including wood-effect finishes, are also available



MAXIMUM INSECT SCREEN DIMENSIONS [mm]

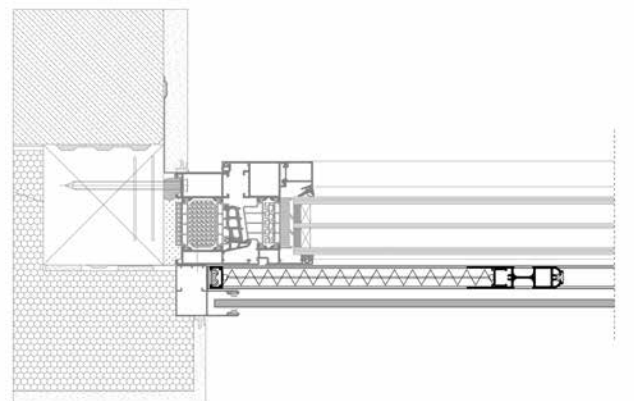
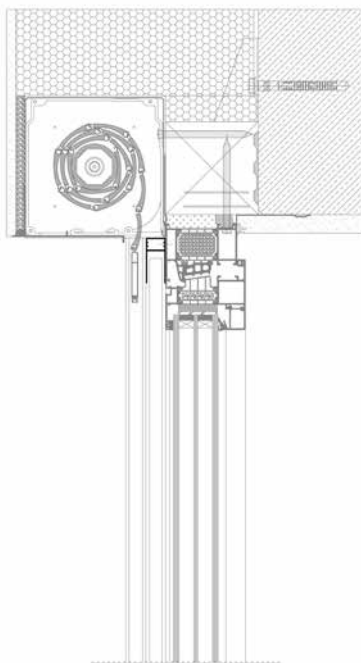
Profile type and model	Width	Height
for PPR/D MPH HARMONY sliding profile	4 000	3 200
for PPR/B MPH HARMONY sliding profile	3 000	2 700

## MPH HARMONY





SP-E + MPH HARMONY



# MPH DUAL PLATED INSECT SCREEN SYSTEM

## KEY FEATURES

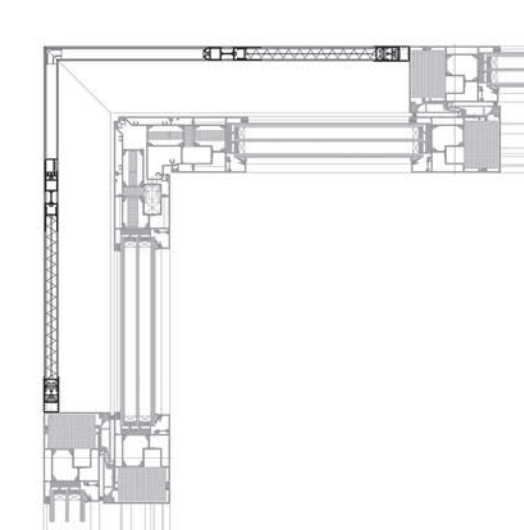
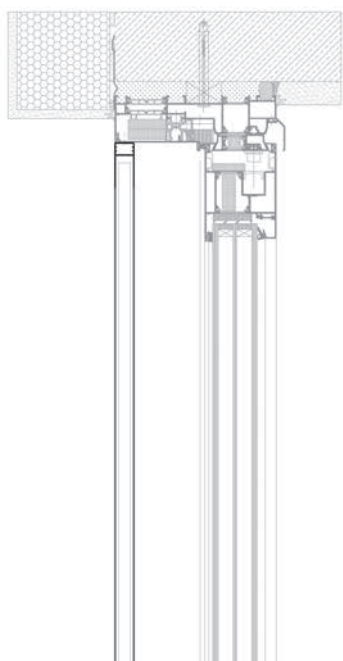
- **Application:** existing and newly constructed buildings
- **Installation:** installation on patio doors and within balcony recesses
- **Construction:** extruded aluminium
- **Insect screen mesh:**
  - › pleated mesh that folds into an accordion shape when closing and retracts into the side profile
  - › option for independent adjustment of the tension of each guiding cord, ensuring stable and even positioning of the mesh
  - › two mesh colour options: grey and black
- **Functionality:**
  - › very smooth and light operation, requiring minimal effort during use
  - › the product does not restrict outward visibility
  - › low threshold allowing unobstructed passage
  - › a corner insect screen version without a mullion is available
  - › compatible with Aluprof roller shutter and sliding door systems
- **Tests:** wind load resistance
- **Colours:** colour finishes for extruded components are applied using powder coating technology; decorative finishes, including wood-effect finishes, are also available



MAXIMUM INSECT SCREEN DIMENSIONS [mm]

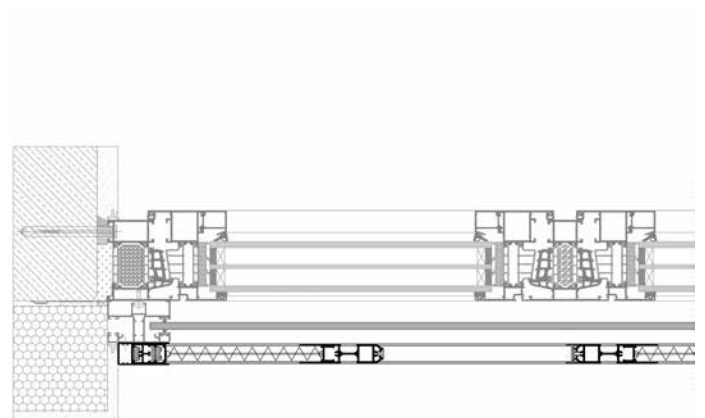
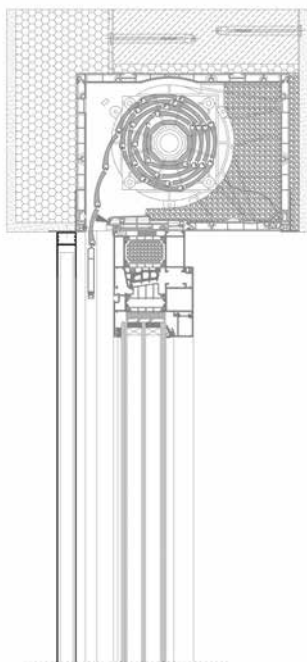
Profile type and model	Width	Height
for PPR/D MPH DUAL sliding profile	6 000	3 200
for PPR/B MPH DUAL sliding profile	4 000	2 300

## MPH DUAL





SKT OPOTERM + MPH DUAL



# MPH VERTI PLEATED INSECT SCREEN SYSTEM

## KEY FEATURES

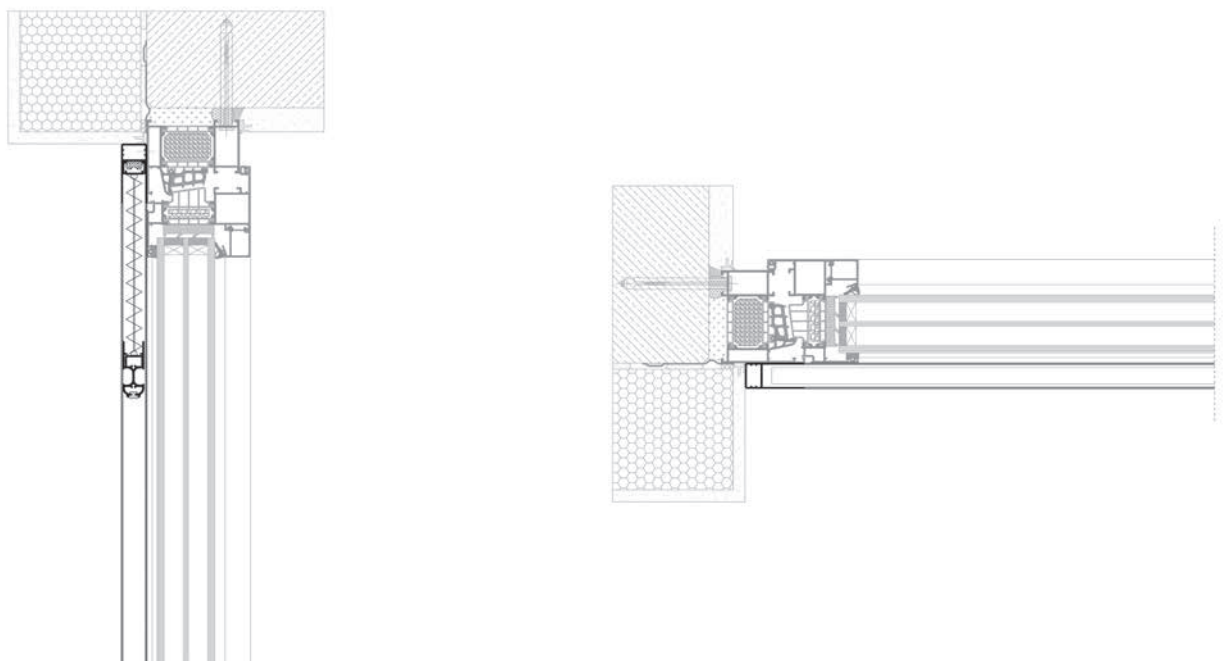
- **Application:** existing and newly constructed buildings
- **Installation:** installation onto window joinery or roof windows
- **Construction:** extruded aluminium
- **Insect screen mesh:**
  - › pleated mesh that folds into an accordion shape when closing and retracts into the top profile
  - › option to tension each of the guiding cords individually, allowing precise and even positioning of the mesh
  - › tensioning components discreetly concealed beneath a cover profile that can be unclipped and reattached at any time
  - › two mesh colour options: grey and black
- **Functionality:**
  - › simple and smooth operation thanks to a spring mechanism integrated into the bottom profile
  - › a specially designed recess in the sliding profile allows convenient opening and closing of the insect screen
  - › the product does not restrict outward visibility
  - › construction largely based on components used in MPH HARMONY system
  - › the insect screen may be equipped with an anti-drop mechanism that prevents the bottom rail from descending in the open position
- **Tests:** wind load resistance
- **Colours:** colour finishes for extruded components are applied using powder coating technology; decorative finishes, including wood-effect finishes, are also available



MAXIMUM INSECT SCREEN DIMENSIONS [mm]

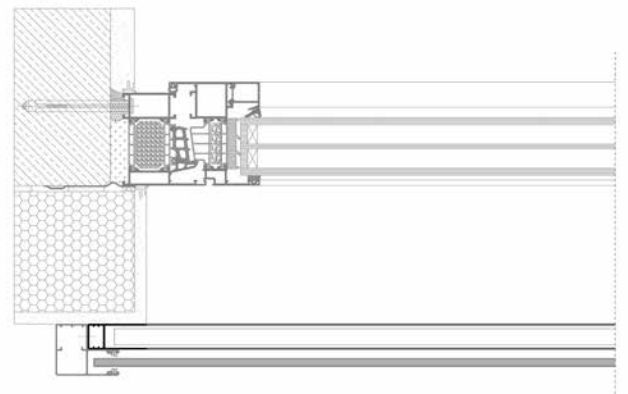
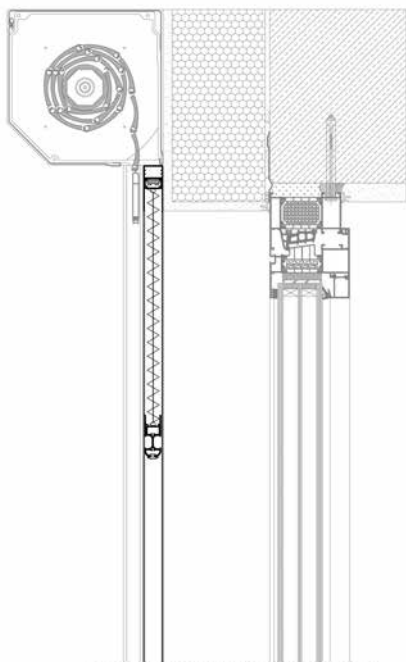
Width	Height
2 300	2 000
4 000	2 300

MPH VERTI





SK + MPH VERTI



# MZN RETRACTABLE INSECT SCREEN SYSTEM

## KEY FEATURES

- **Application:** existing and newly constructed buildings
- **Installation:** on the wall or within the window joinery reveal
- **Construction:** compact cassette with a semi-oval cross-section; insect screen construction made of extruded aluminium
- **Insect screen mesh:**
  - › made of fiberglass
  - › two mesh colour options: grey and black
- **Functionality:**
  - › thanks to the use of a special catch, it is possible to adjust the mesh closing height
  - › the use of a brake allows gentle and silent closing of the bottom rail into the box
  - › a brake is available to ensure gentle and silent closing of the bottom rail
  - › intuitive AluClick mechanism for convenient opening and closing of the insect screen
  - › frame cut at right angles, facilitating fabrication
  - › maximum use of system components from Aluprof's insect screen range
- **Tests:** wind load resistance
- **Colours:** colour finishes for extruded components are applied using powder coating technology; decorative finishes, including wood-effect finishes, are also available

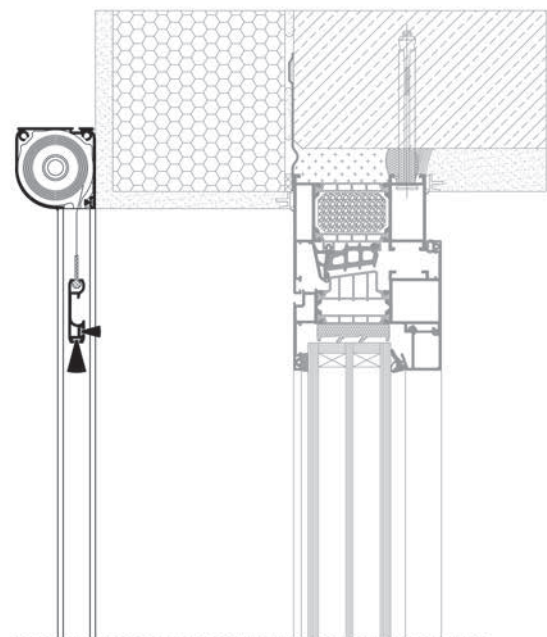
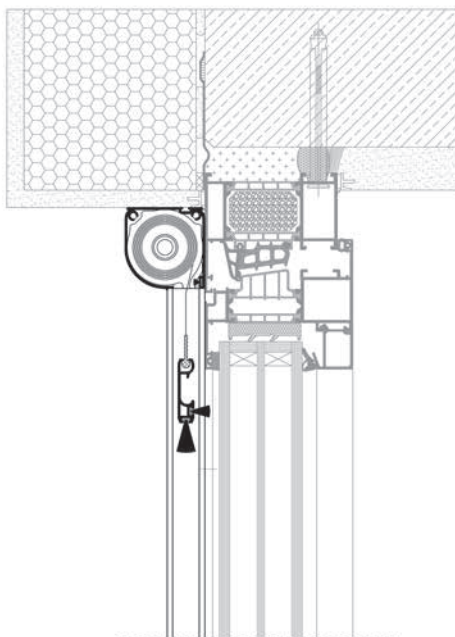


MAXIMUM INSECT SCREEN DIMENSIONS [mm]

Profile type and model	Maximum width of the insect screen with guide rail	Maximum width of the insect screen with a box
RNSMKT - 1,6	2 000*	1 600
RNSMKT - 2,5	2 000*	2 500

\* for MZH/MZN insect screens installed in roof windows (at an angle of up to 45°), the maximum overall width of the insect screen including guide rails is 1 500 mm

## MZN





# MZH ROLLER INSECT SCREEN SYSTEM

## KEY FEATURES

- **Application:** existing or newly constructed buildings
- **Installation:** wall-mounted, recess installation, installation onto window joinery, or installation on roof windows
- **Construction:** compact cassette with a semi-oval cross-section; the insect screen structure is manufactured from extruded aluminium
- **Insect screen mesh:**
  - › made of fibreglass
  - › two mesh colour options: grey and black
- **Functionality:**
  - › option to lock the bottom rail from the inside when installed on roof windows
  - › a carefully designed latch shape ensures simple and convenient operation of the bottom rail
  - › guide rails with an offset are available, allowing installation on windows fitted with a drip cap
  - › the system is largely based on components used in the MZN system
- **Tests:** wind load resistance
- **Colours:** colour finishes for extruded components are applied using powder coating technology; decorative finishes, including wood-effect finishes, are also available

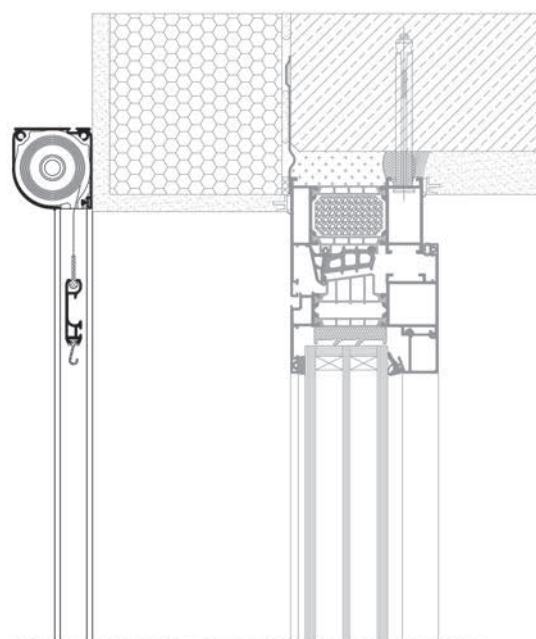
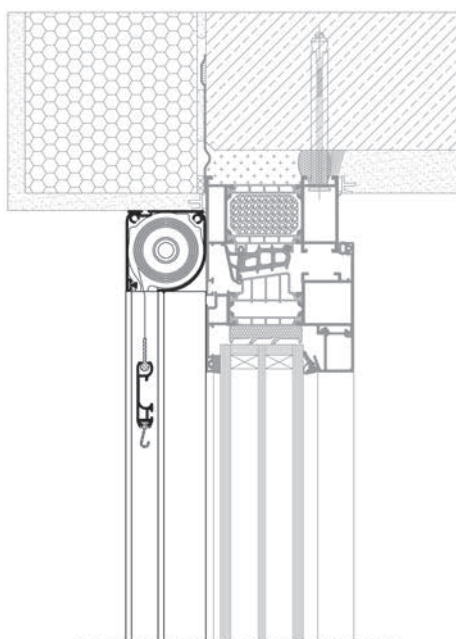


MAXIMUM INSECT SCREEN DIMENSIONS [mm]

Profile type and model	Maximum width of the insect screen with guide rail	Maximum width of the insect screen with a box
RNSMKT - 1,6	2 000*	1 600
RNSMKT - 2,5	2 000*	2 500

\* for MZH / MZN insect screens installed in roof windows (at an angle of up to 45°), the maximum overall width of the insect screen including guide rails is 1,500 mm

## MZH

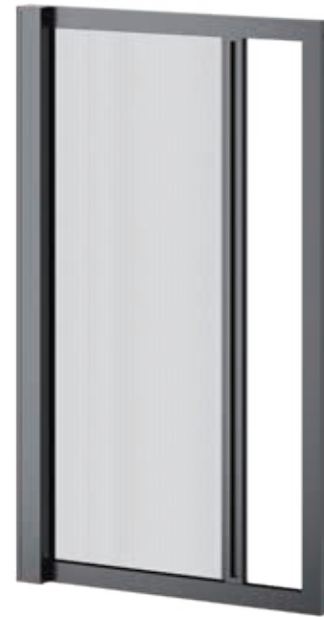




# MZP HORIZONTAL RETRACTABLE INSECT SCREEN SYSTEM

## KEY FEATURES

- **Application:** existing and newly constructed buildings
- **Installation:** wall-mounted or recess installation for narrow balcony doors
- **Construction:** extruded aluminium
- **Insect screen mesh:**
  - › made of fibreglass
  - › two mesh colour options: grey and black
- **Functionality:**
  - › small dimensions of components
  - › no need for seasonal removal, as the mesh can be fully retracted into the cassette
  - › the product does not restrict outward visibility
- **Tests:** wind load resistance
- **Colours:** colour finishes for extruded components are applied using powder coating technology; decorative finishes, including wood-effect finishes, are also available

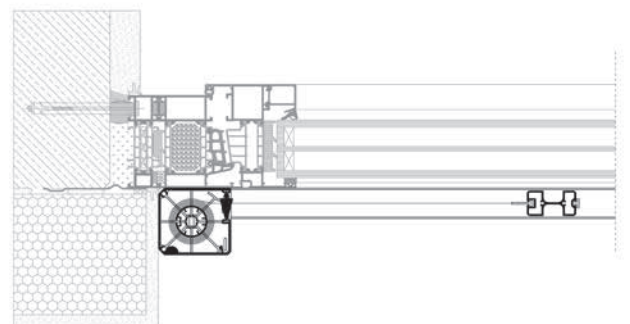
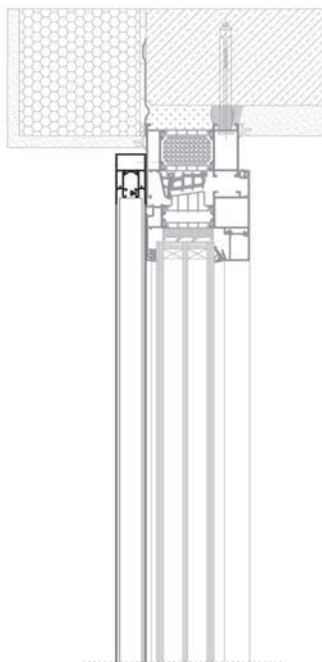


### MAXIMUM INSECT SCREEN DIMENSIONS [mm]

Width	Height
1 200	2 300

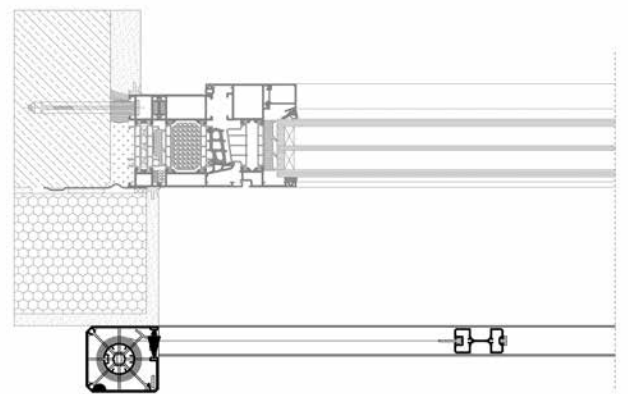
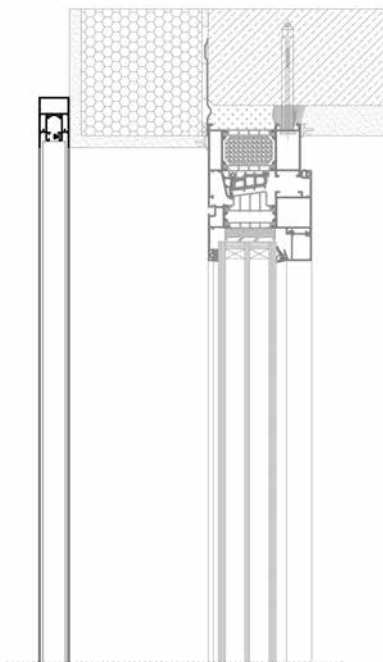
△ The minimum height of the insect screen is 700 mm

MZP





MZP



# MRP SLIDING FRAMED INSECT SCREEN SYSTEM

## KEY FEATURES

- **Application:** existing and newly constructed buildings
- **Installation:** directly onto the door frame or wall
- **Construction:** extruded aluminium
- **Insect screen mesh:**
  - › made of fibreglass
  - › two mesh colour options: grey and black
- **Functionality:**
  - › brush seals ensure maximum sealing performance of the insect screen
  - › bottom running roller with an adjustment mechanism allows smooth regulation of the tilt angle of the door leaves
  - › a wide selection of running tracks enables installation in various configurations on all types of windows and doors, while guaranteeing collision-free operation with external roller shutters
  - › discreetly concealed magnetic tape enhances the aesthetic appearance
  - › option to install the insect screen in a multi-panel configuration
  - › a low running track option allows compatibility with sliding doors featuring a low threshold
  - › additional reinforcement, installed via a snap-fit connection, enables the manufacture of larger leaf frames
- **Tests:** wind load resistance
- **Colours:** colour finishes for extruded components are applied using powder coating technology; decorative finishes, including wood-effect finishes, are also available



MAXIMUM INSECT SCREEN DIMENSIONS [mm]

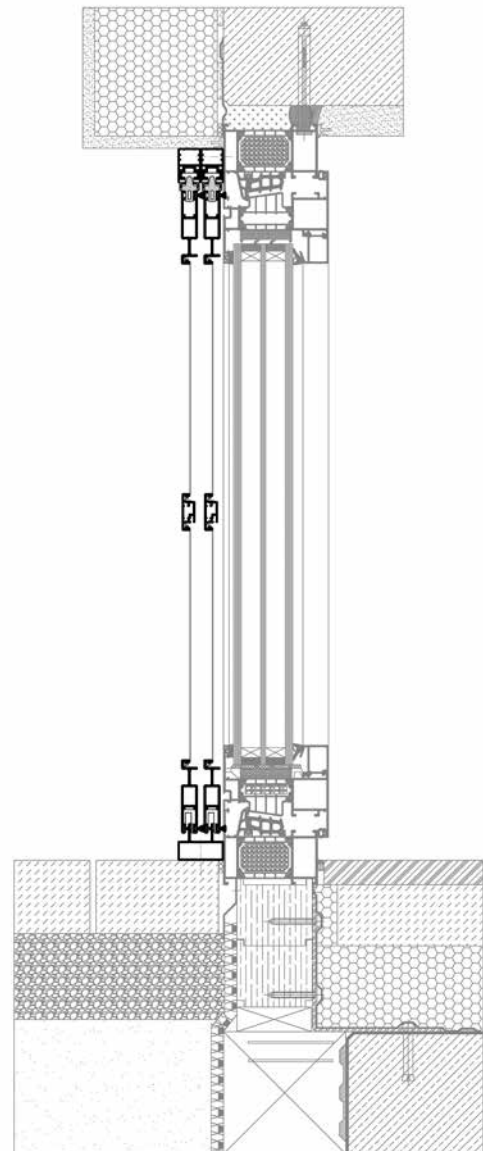
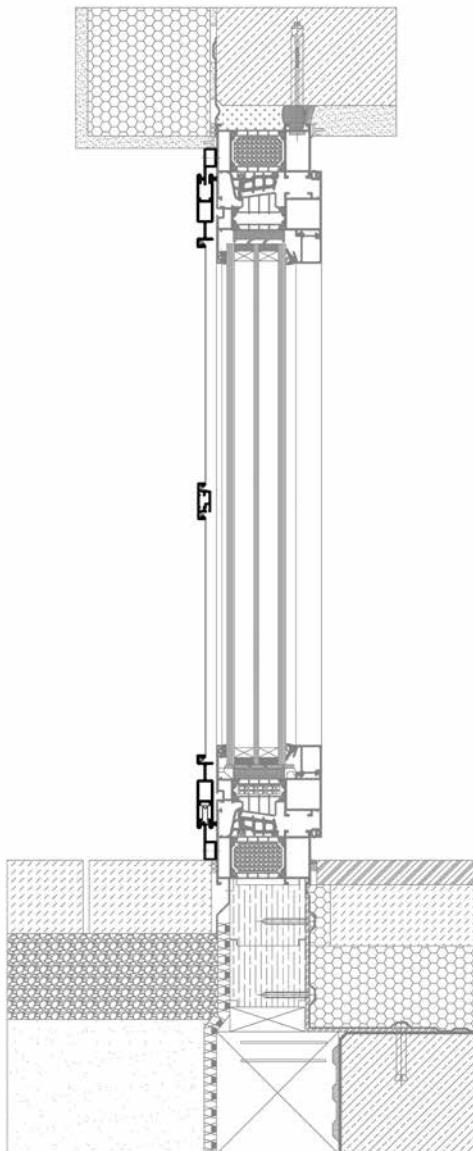
Profile type and model	Width	Height
without connecting profile	1 500	2 000
with <b>PL MRO</b> connecting profile	2 500	2 500





MRP with a bottom roller

MRP with a glide block



# MRO HINGED FRAMED INSECT SCREEN SYSTEM

## KEY FEATURES

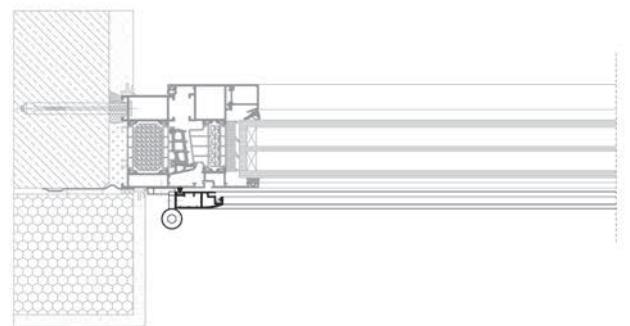
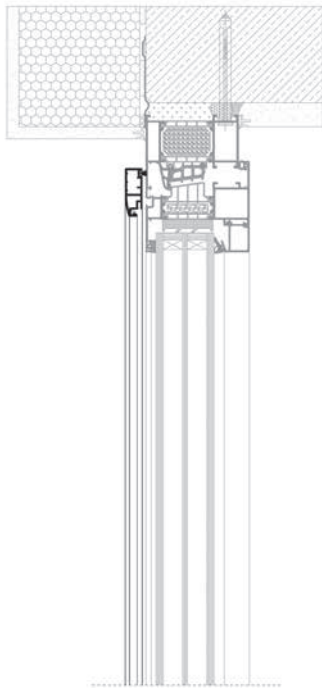
- **Application:** existing and newly constructed buildings
- **Installation:** direct installation onto the door frame or reveal
- **Construction:** extruded aluminium
- **Insect screen mesh:**
  - › made of fibreglass
  - › two mesh colour options: grey and black
- **Functionality:**
  - › the frame is assembled using internal aluminium corner connectors, increasing overall structural rigidity
  - › option to select the method of joining profiles with corner connectors: press crimping or pressure screws
  - › additional reinforcement using a connecting profile allows the manufacture of larger frame sizes
  - › brush seal around the entire frame perimeter ensures improved sealing performance
  - › option to install the insect screen leaf on an independent aluminium frame in cases where a handle collision occurs
  - › two opening options available: an ergonomic/aesthetic handle, or a dedicated connecting profile allowing opening from both the inside and outside
  - › infill panel in the lower part of the leaf available in three height options
- **Tests:** wind load resistance
- **Colours:** colour finishes for extruded components are applied using powder coating technology; decorative finishes, including wood-effect finishes, are also available



MAXIMUM INSECT SCREEN DIMENSIONS [mm]

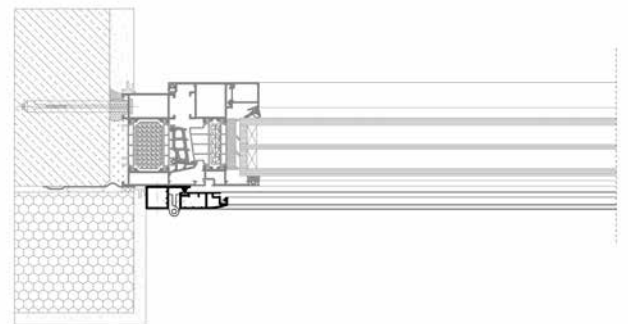
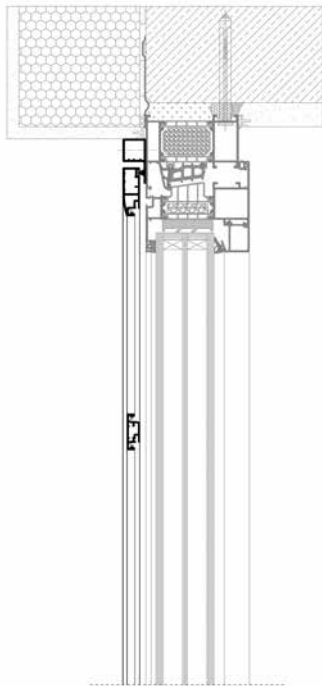
Profile type and mode	Width	Height	Area
without connecting profile	900	2 000	1,8 [m <sup>2</sup> ]
with <b>PL MRO</b> or <b>PLU MRO</b> connecting profile	1 500	2 500	2,4 [m <sup>2</sup> ]

MRO





MRO



# MRS FIXED FRAMED INSECT SCREEN SYSTEM

## KEY FEATURES

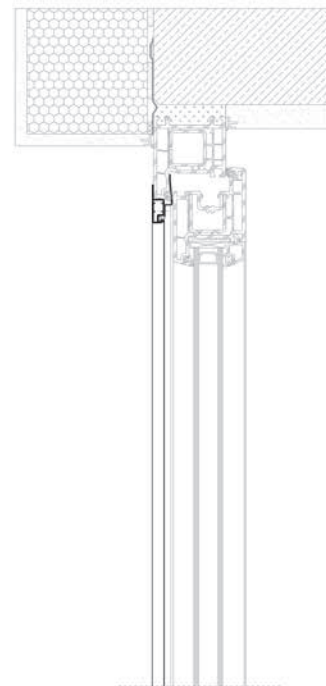
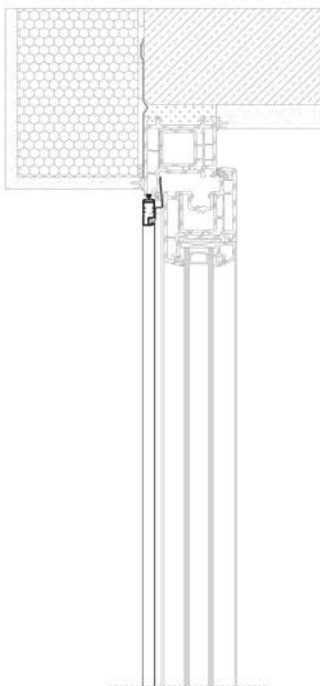
- **Application:** existing and newly constructed buildings
- **Installation:** installation on windows; compatible with most window profile
- **Construction:** extruded aluminium or bent aluminium sheet
- **Insect screen mesh:**
  - › PVC-coated fibreglass mesh in grey and black
  - › fibreglass mesh with a fine fibre structure
  - › anti-allergy polyester mesh
  - › aluminium mesh providing effective protection against insects and small rodents
  - › stainless steel mesh
- **Functionality:**
  - › the insect screen frame can be assembled using internal aluminium corner connectors, either crimped or screw-fixed
  - › the profile is available in two variants: with a fin resting against the window frame, or without a fin, featuring a pocket for a brush seal, intended for fully enclosed window frames
  - › the MRSPZ variant is available for semi-flush windows, where the external surface of the window sash projects beyond the sealing plane, creating sufficient space for mounting the fixed MRS insect screen
- **Tests:** wind load resistance
- **Colours:** colour finishes for extruded components are applied using powder coating technology; decorative finishes, including wood-effect finishes, are also available



MAXIMUM INSECT SCREEN DIMENSIONS [mm]

Profile type and model	PG MRS profile frame	Frame made of PG/SZ MRS profile	Frame made of PG MRS & PG/SZ MRS profiles	Frame made of PG/P MRS
without connecting profile	1 500 × 1 500	1 200 × 1 200	1 200 × 1 200	1 500 × 1 500
with <b>PL MRS</b> connecting profile	1 600 × 2 500	1 300 × 2 300	1 300 × 2 300	—

MRS





# MRSZ FIXED FRAMED INSECT SCREEN SYSTEM

## KEY FEATURES

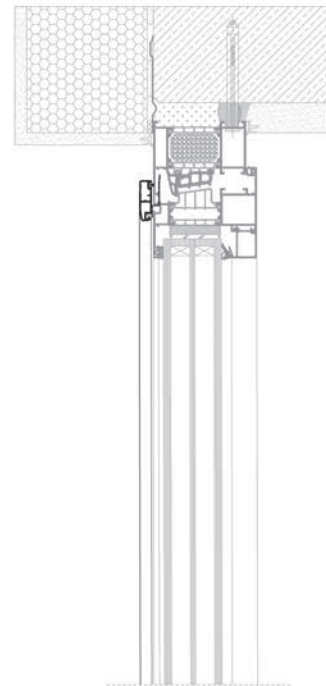
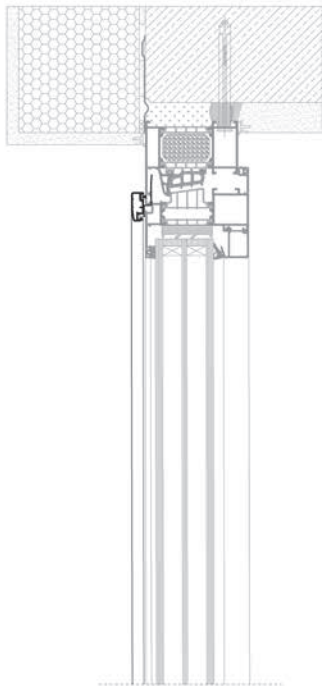
- **Application:** existing and newly constructed buildings
- **Installation:** installation on flush aluminium windows
- **Construction:** extruded aluminium
- **Insect screen mesh:**
  - › fibreglass mesh available in grey and black
- **Functionality:**
  - › the insect screen frame can be assembled using internal aluminium corner connectors, either crimped or screw-fixed, ensuring a clean appearance and allowing colour matching to the window frame
  - › a top fixing hook enables easy attachment of the insect screen to the upper part of the frame, which is additionally fitted with a brush seal to ensure full sealing
  - › bottom catch allows easy positioning of the insect screen in the lower part of the frame
- **Tests:** wind load resistance
- **Colours:** colour finishes for extruded components are applied using powder coating technology; decorative finishes, including wood-effect finishes, are also available



MAXIMUM INSECT SCREEN DIMENSIONS [mm]

Profile type and model	Frame made of PG MRSZ profile	Frame made of PG MRS/SZ profile
without connecting profile	1 500 × 1 500	2 000 × 2 000
with <b>PL MRSZ</b> connecting profile	1 500 × 2 500	2 000 × 3 000

MRSZ









# DOORS AND GRILLES

# BGR GARAGE DOOR SYSTEM

## KEY FEATURES

- **Application:** existing and newly constructed buildings
- **Installation:** façade-mounted, recess installation, or internal installation within the building
- **Construction:** extruded aluminium or bent aluminium sheet
- **Door curtain:**
  - › PA profiles manufactured from high-quality aluminium sheet filled with polyurethane foam and finished with a special two-layer PU/PA coating system. Available profiles: PA 52/PAB 52/PA 55/PA77
  - › extruded profiles: PE 55
- **Functionality:**
  - › space-saving operation thanks to vertical movement of the door curtain
  - › when fully opened, the door does not restrict visibility, enhancing driver safety
  - › the door is equipped with an anti-drop safety device (inertia brake), which is automatically activated in the event of motor failure; additional safety devices are available, such as photocells, resistive safety edges, and closing-edge protection
  - › in addition, the electromagnetic brake of the door drive together with locking hangers prevents the curtain from being lifted
- **Tests:** air permeability, watertightness, resistance to wind load, mechanical aspects, operational safety, acoustic insulation, and burglary resistance (RC3 class available – ift Rosenheim certification)
- **Colours:**
  - › wide range of PA profile colours available within the standard palette, with wood-effect finishes also offered
  - › extruded profiles can be powder-coated in any colour from the RAL palette; decorative finishes, including wood-effect finishes, are also available
- **Operation:** electric, equipped with an emergency manual override winding mechanism

## Available variants

SK



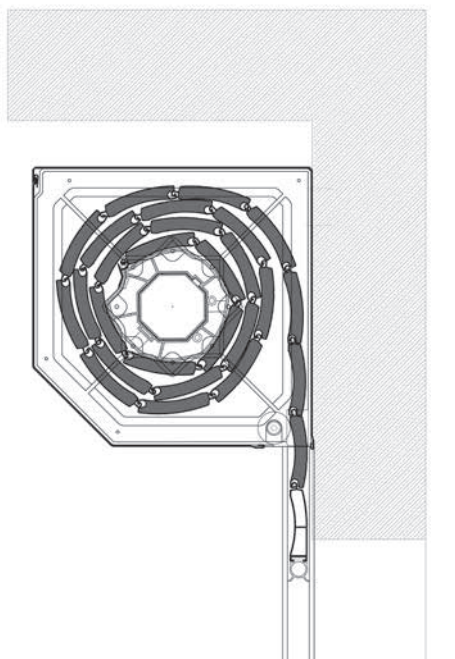
SKO-P



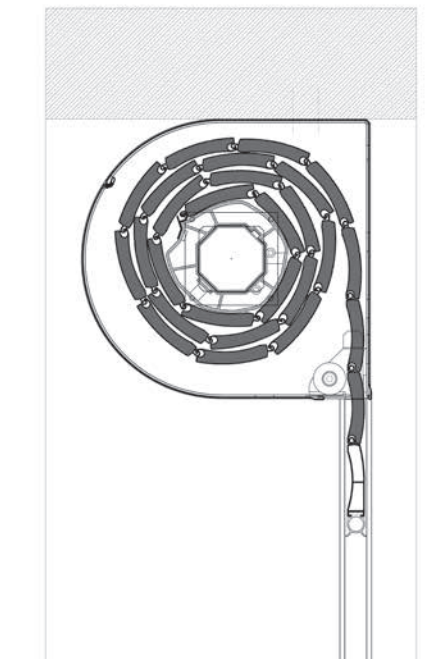
KNB



SK



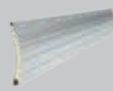







SKO-P











# BGR GARAGE DOOR SYSTEM

MAXIMUM EXTERNAL DIMENSIONS OF THE GARAGE DOOR [mm]						
Type and profile model	max area [m <sup>2</sup> ]	max width [mm]	SK	SKO-P	KNB	
Foam-filled profile	PA 52	8,0	4 200	5 000	5 000	5 000
	PAB 52	8,0	4 200	5 000	5 000	5 000
	PA 55	9,5	4 800	5 000	4 980	5 000
	PA 77	15,0	6 000	4 920	2 680	5 000
Extrusion profile	PE 55	15,0	6 500	5 000	3 980	5 000

PROFILES GUIDE RAILS		NAME					
			Aluminium profile with polyurethane foam				Extruded aluminium profile
			PA 52	PAB 52	PA 55	PA 77	PE 55
PP 75		Straight guide rail	■	■			■
PP 75 D/S		Straight guide rail					■
PP 89		Straight guide rail					■
PPW 90		Reinforced straight guide rail			■		■
PP 110		Straight guide rail					■
PP110Z		Straight guide rail with safety feature					■



BOTTOM RAIL			ROLLER SHUTTER PROFILE				
			Aluminium, filled with foam				Extruded aluminium
CODE	HEIGHT		PA 52	PAB 52	PA 55	PA 77	PE 55
LDG/DU	6,0 mm					■	
LDG/52	51 mm		■	■			
LDG 52/OPT	52 mm		■	■			
LDG 55	55 mm				■		■
LDG/S	55 mm				■		■
LDG/D	77 mm					■	



# BPR INDUSTRIAL DOOR SYSTEM

## KEY FEATURES

- **Application:** existing and newly constructed buildings
- **Installation:** onto the building structure
- **Construction:** extruded aluminium
- **Door curtain:**
  - › PA 100 profiles manufactured from high-quality aluminium sheet, filled with polyurethane foam and finished with a special two-layer PU/PA coating system
  - › PE 100 extruded profiles
- **Functionality:**
  - › the product is characterised by high strength and durability, making it particularly suitable for industrial halls, warehouses, and commercial or service buildings
  - › the door is equipped with various safety devices, including
    - › a safety brake preventing uncontrolled lowering of the door curtain
    - › safety edge protection
    - › light curtains
    - › a photocell system
  - › the door winding shaft is mounted on support and bearing consoles; two types of consoles are available: fixed (KNS) and movable (KNJ)
- **Tests:** air permeability, watertightness, wind load resistance, mechanical aspects, operational safety, acoustic insulation
- **Colours:**
  - › wide range of PA profile colours available within the standard palette, with wood-effect finishes also offered
  - › extruded profiles can be powder-coated in any colour from the RAL palette
- **Operation:** electric, equipped with an emergency manual override winding mechanism

## Available variants

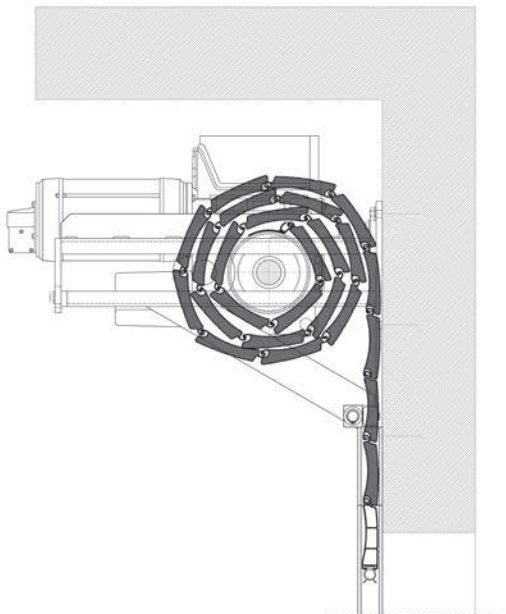
### BPR KNJ



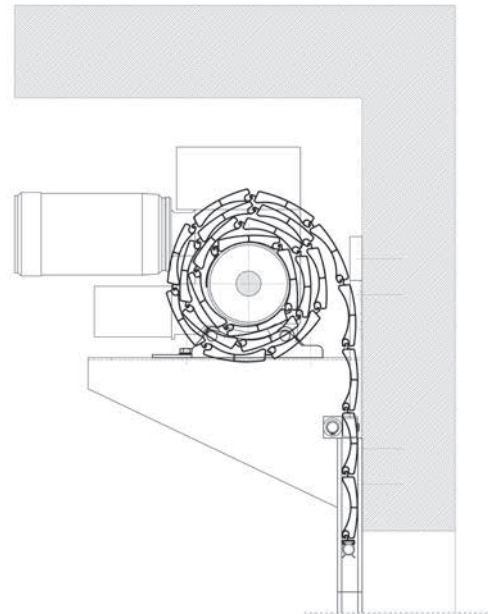
### BPR KNS



KNJ



KNS





**MAXIMUM EXTERNAL DIMENSIONS OF THE GARAGE DOOR [mm]**

Type and profile model	max area [m <sup>2</sup> ]	max width [mm]	KNS	KNJ	KNJ/A	KNB
Foam-filled profile <b>PA100</b>	49,0	7 200	5 500	7 000	7 000	—

Extrusion profile <b>PE100</b>	36,0	7 000	5 000	6 000	—	5 000
<b>PEK100</b>	21,5	7 000	5 000	5 000	—	5 000

GUIDE RAILS	PROFILES	NAME			
			Aluminium profile with polyurethane foam	Extruded aluminium profile	
			PA 100	PE 100	PER 100
PP 120/G		Straight guide rail with seals	■	■	■
PP 150Z		Straight guide rail with safety device	■		

# BKR COMMERCIAL GRILLE SYSTEM

## KEY FEATURES

- **Application:** existing and newly constructed buildings
- **Installation:** wall-mounted or lintel installation
- **Construction:** extruded aluminium
- **Door curtain:**
  - › extruded profiles PEK 52/PEK 77/PEK 80/PEKO 80/PEK 100
- **Functionality:**
  - › due to its design, the system provides effective protection of interiors while allowing full visibility of shopfront displays
  - › depending on overall dimensions and installation conditions, the rolling grille can be installed on consoles or within boxes as part of an adaptive system
  - › the open structure of the profiles ensures adequate ventilation
  - › option to use solid infill profiles at the bottom of the grille, providing protection against dust and rodents
  - › the rolling grille is equipped as standard with an anti-drop safety device; it can be additionally fitted with anti-crush protection during closing, anti-lift protection, and a set of photocells. In the event of a power failure, the grille can be opened using an emergency manual override
  - › the drive's electromagnetic brake combined with locking hangers can effectively protect the curtain against unauthorised lifting
- **Tests:** mechanical aspects, operational safety
- **Colours:** extruded profiles can be powder-coated in any colour from the RAL palette
- **Operation:** electric, equipped with an emergency manual override winding mechanism

## Available variants

BKR/KNS



BKR/KNJ



BKR/KNB



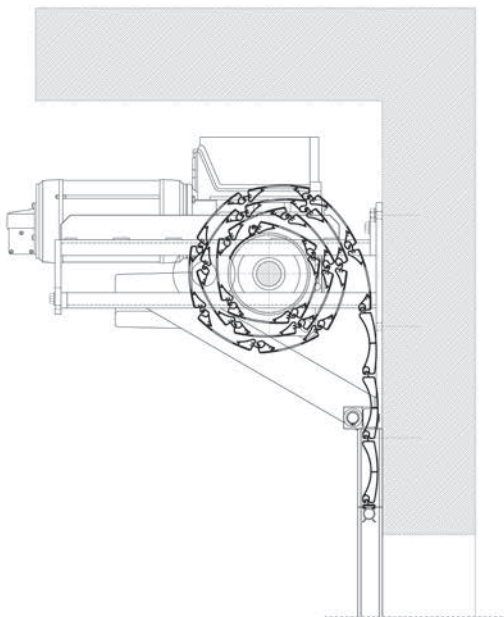
BKR/SKO-P



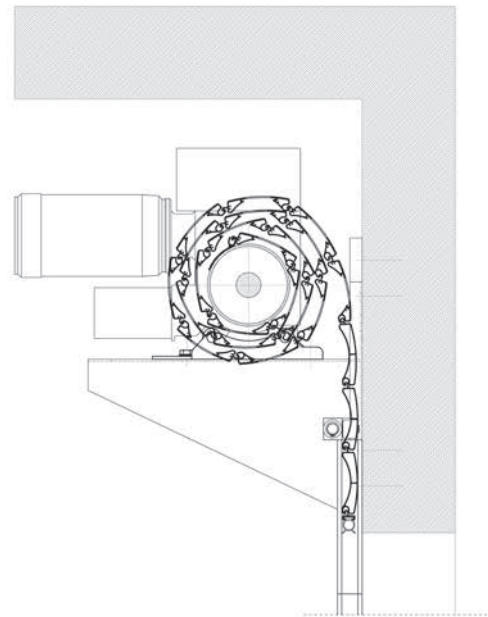
BKR/SK



KNJ

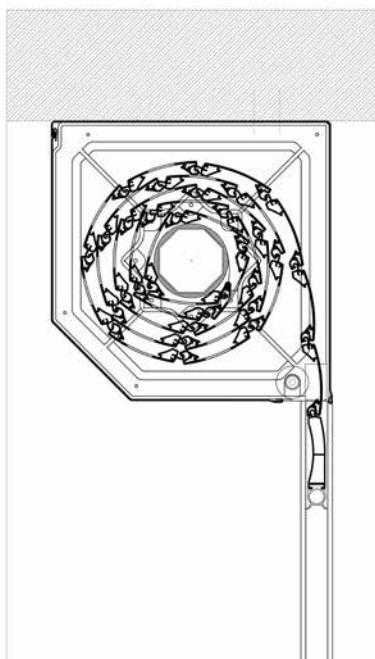


KNS

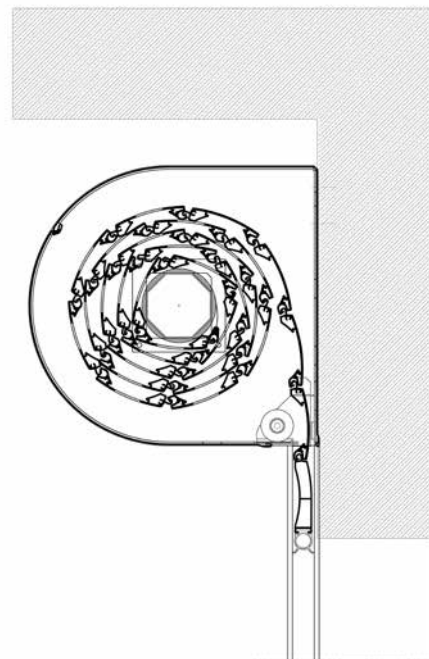




SK









SKO-P



# BKR COMMERCIAL GRILLE SYSTEM

MAXIMUM EXTERNAL DIMENSIONS OF THE GRILLE [mm]







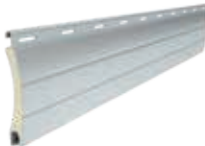

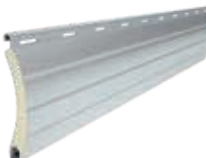


















Type and profile model	max area [m <sup>2</sup> ]	max width [mm]	SK	SKO-P	KNB	KNS	KNJ	
Extrusion profile	PEK 52 PEKP 52	10,0	3 000	5 000	5 000	5 000	—	—
	PEK 77 PEKP 77	9,0	5 000	5 000	2 920	5 000	—	—
	PEK 80 PEKP 80 PEKO 80	15,0	5 000	4 850	3 420	5 000	—	—
	PEK 100	21,5	7 000	—	—	5 000	5 000	5 000

PROFILES		NAME				
			Extruded aluminium profile			
GUIDE RAILS			PEK 52	PEK 77	PEK 80	PEK 100
PP 66		Straight guide rail	■			
PP 75 / GS		Straight guide rail	■			
PP 89		Straight guide rail		■	■	
PP 110		Straight guide rail		■	■	
PP 120		Straight guide rail				■



BOTTOM RAIL		ROLLER SHUTTER PROFILE			
		Extruded aluminium			
CODE		PEK 52	PEK 77	PEKO 80	PEK 100
LDG52		■			
LDG52/OPT		■			
LDG/D			■	■	
LDG/DU			■	■	
LDG/B					■

SHUTTER, DOOR AND GRILLE

			
<b>PT 37</b> Profile height: 37 mm Thickness: 8 mm	<b>PT 52</b> Profile height: 52 mm Thickness: 14 mm	<b>PA 37</b> Profile height: 37 mm Thickness: 8,5 mm	<b>PAN 37</b> Profile height: 37 mm Thickness: 7,5 mm
			
<b>PA 39</b> Profile height: 39 mm Thickness: 9 mm	<b>PA 40</b> Profile height: 40 mm Thickness: 8,7 mm	<b>PA 43</b> Profile height: 43 mm Thickness: 8,8 mm	<b>PA 45</b> Profile height: 45 mm Thickness: 9 mm
			
<b>PA 52</b> Profile height: 52 mm Thickness: 13 mm	<b>PAB 52</b> Profile height: 52 mm Thickness: 13 mm	<b>PA 55</b> Profile height: 55 mm Thickness: 14 mm	<b>PA 77</b> Profile height: 77 mm Thickness: 18,5 mm
			
<b>PA 100</b> Profile height: 100 mm Thickness: 25 mm	<b>PE 41</b> Profile height: 41 mm Thickness: 8,5 mm	<b>PE 55</b> Profile height: 55 mm Thickness: 14 mm	<b>PE 100</b> Profile height: 100 mm Thickness: 25 mm
			
<b>PEK 52</b> Profile height: 52 mm Thickness: 13 mm	<b>PEKP 52</b> Profile height: 52 mm Thickness: 13 mm	<b>PEK 77</b> Profile height: 77 mm Thickness: 18,5 mm	<b>PEKP 77</b> Profile height: 77 mm Thickness: 18,5 mm
			
<b>PEK 80</b> Profile height: 80 mm Thickness: 18,5 mm	<b>PEKP 80</b> Profile height: 80 mm Thickness: 18,5 mm	<b>PEKO 80</b> Profile height: 80 mm Thickness: 18,5 mm	<b>PEK 100</b> Profile height: 100 mm Thickness: 25 mm
			
<b>PER 77</b> Profile height: 77 mm Thickness: 18,5 mm	<b>PEW 77</b> Profile height: 77 mm Thickness: 14,5 mm	<b>PEW 100</b> Profile height: 100 mm Thickness: 25 mm	



# ROLLER SHUTTER AND DOOR PROFILE COLOUR

COLOUR	CODE	COLOUR	PA 37	PAN 37	PA 39	PA 40	PA 43	PA 45	PA 52	PAB 52	PA 55	PA 77	PA 100
	x=01	silver	std	std	std	std	std	std		std	std	std	std
	x=02	white	std	std	std	std	std	std		std	std	std	std
	x=03	grey	std	std	std	std	std	std		std	std	std	std
	x=04	dark beige			std	std	std						
	x=05	beige	std		std	std	std	std		std	std	std	
	x=06	wood-dark	ldr		ldr		ldr		ldr	⊗	ldr	ldr	
	x=07	wood-light	ldr		ldr						ldr		
	x=08	dark brown	std	std	std	std	std	std		std	std	std	std
	x=09	brown	std		std	std	std	std	std	std	std	std	std
	x=11	yellow			ex								
	x=12	red			ex							ex	
	x=13	green	ex		ex				ex	⊗		ex	
	x=14	blue										ex	
	x=15	cream white	std		std	std	std	std	std	std	std	ex	
	x=16	ivory	std		std	std	std		ex	⊗	ex	ex	
	x=17	fir green	ex		ex	ex			ex	⊗	ex	ex	
	x=18	steel blue	ex		ex	ex			ex	⊗	ex	ex	
	x=19	bordeau			ex	ex				⊗		ex	
	x=20	black	std	std	std	std	std			std	std	ex	
	x=21	black grey			ex	ex	ex						
	x=22	ultra white	std		std	std	std			std		std	
	x=23	anthracite grey	std	std	std	std	std	std		std	std	std	std
	x=24	golden oak			ldr						ldr	ldr	
	x=26	mahogany	ldr		ldr		ldr	ldr					
	x=27	chery								ldr		ldr	
	x=28	nut	ldr	ldr	ldr		ldr	ldr	ldr	⊗		ldr	
	x=30	golden oak	ldr	ldr	ldr		ldr	ldr		ldr	ldr	ldr	
	x=31	light grey	std		std		std			std			
	x=33	basalt grey			ex		ex						
	x=34	quartz grey	std		std	std	std	std	std	⊗	std		
	x=35	concrete grey			ex		ex						
	x=36	wenge			ldr		ldr		ldr	⊗			
	x=37	grey aluminium			ex		ex		ex	⊗			
	x= 38	frozen grey	std		std								
	x=39	satin grey	std		std					std			
	x=40	white, pearl mat	ex		ex				ex	⊗			
	x=43	anthracite grey, pearl mat			ex				ex	⊗		ex	
	x=49	malt oak			ldr		ldr						
	x=52	winchester			ldr		ldr	ldr	ldr	⊗			
	x=71	Chartwell green							ex	⊗		ex	
	x=75	metallic grey			std				std	⊗			
	x=79	light oak			ldr								
	x=84	blue duck egg										ex	
	x=229	slate grey								ex		ex	
	x=410	irish oak										ldr	

⊗ - available within the same price group after stock depletion of PA52  
 std - standard price  
 ex - extra price category  
 ldr - wood-effect price category

Profile colours on larger surfaces may slightly differ from the presented samples.

The currently applicable colour range is available at [katalog.aluprof.com](http://katalog.aluprof.com)



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