



**NATURAL SMOKE
EXHAUST, NATURAL
DAYLIGHT & VENTILATION
IN BUILDING SYSTEMS**



We manufacture components for gravitational smoke exhaust systems, natural daylight & ventilation systems, roof skylights, continuous rooflights and roof hatches.

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01

About us

TRUSTED BY CUSTOMERS
FOR OVER 20 YEARS!

KERA AWAK brand has been on the market since 1999.

Over the years, the company has specialized in the production of smoke vents and dome-shaped rooflights. In June 2005, AWAK signed a capital cooperation agreement with ICOPAL S.A. From that moment on, the company operated as part of the international ICOPAL Group. In 2017, following the merger of ICOPAL and BRAAS MONIER, AWAK became part of the international BMI Group – **the largest manufacturer of roofing materials in Europe**, for both flat and pitched roofs.

In September 2020, AWAK became part of the Finnish capital group KERA GROUP OY. KERA GROUP is a family-owned company with **50 years of tradition**, specializing in the production and distribution of daylighting and smoke ventilation solutions for buildings. It is also a Scandinavian market leader in the production of canopies, terrace glazing, and winter gardens. Since 1971, through continuous investment in technology, the company has ensured steady growth, resulting in its presence in 8 European countries. KERA Group subsidiaries are located in **Finland, Norway, Sweden, Denmark, Lithuania, Latvia, Estonia and in Poland**. For many years, the KERA AWAK brand has also been present in the Ukrainian, Romanian, Hungarian, and Balkan markets.

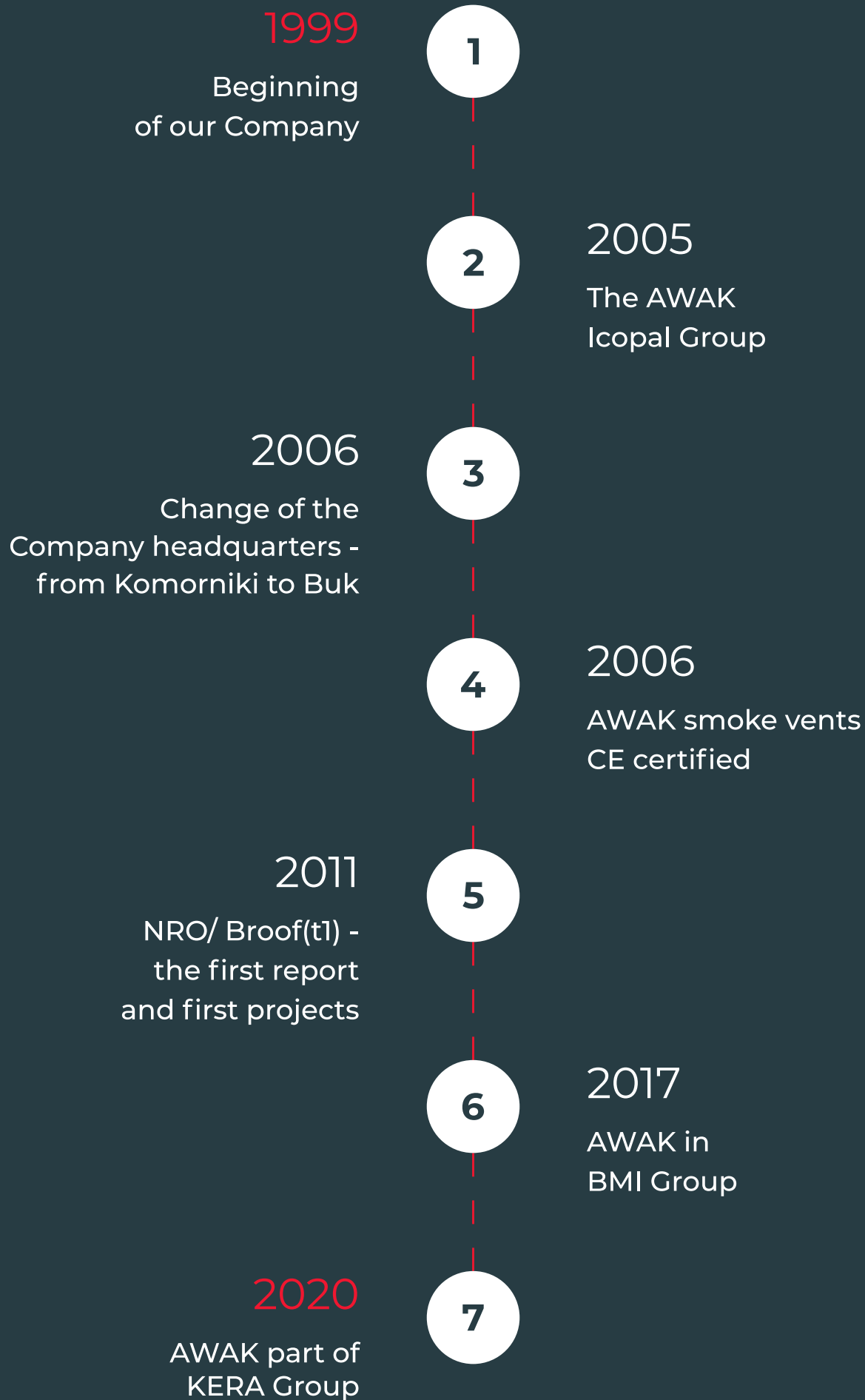




02

Our history

For nearly 30 years, our experienced team has been providing full support in the comprehensive execution of gravitational smoke removal systems, building aeration, and ventilation systems.



03

Kera Awak company figures

Our experienced and qualified personnel support you in selecting the optimal solutions. With deep expertise in legal regulations and product selection, they ensure the perfect match for every individual project.



The surface covered with our products in the last 3 years

Over
125 000 m²



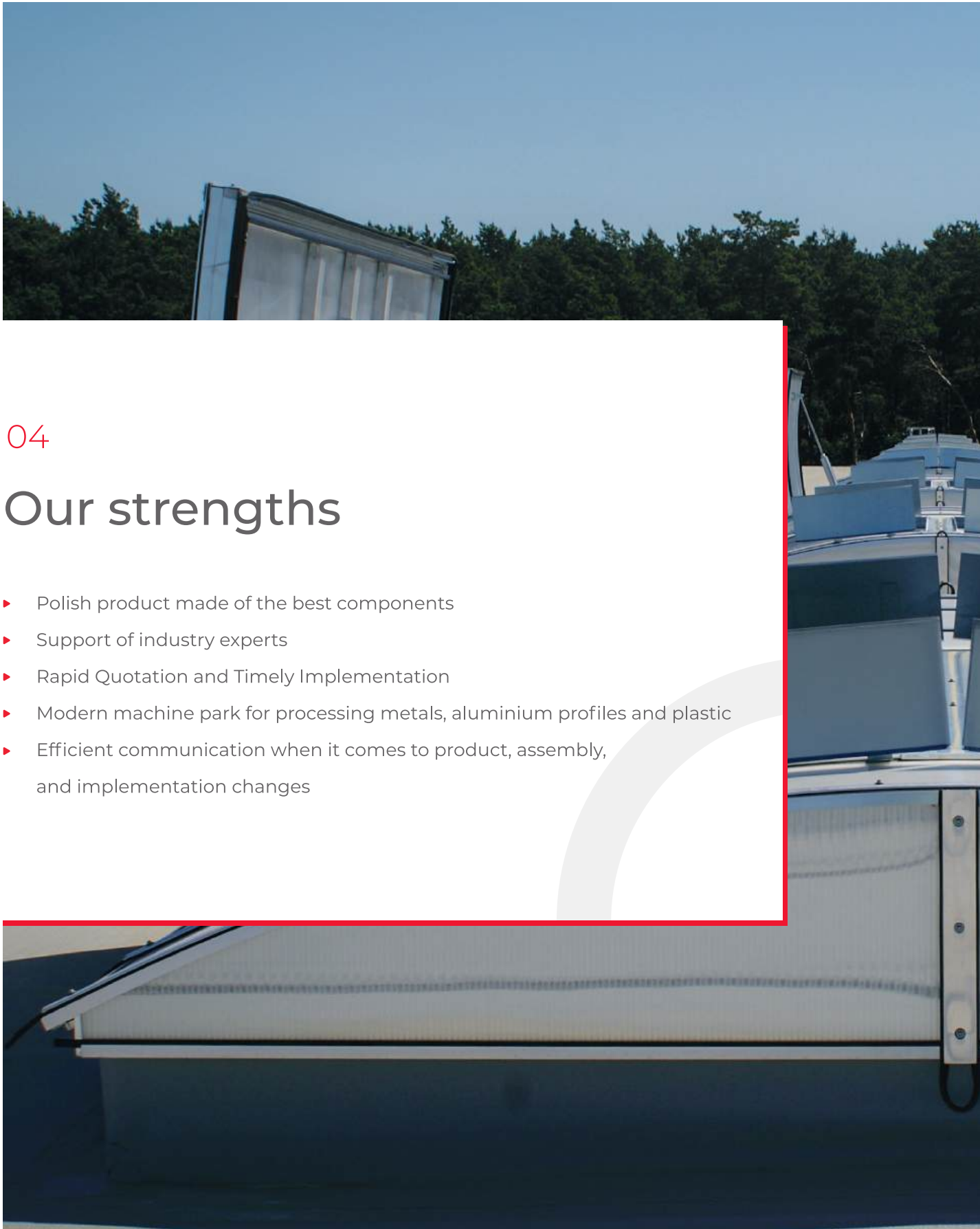
Number of offers prepared for our customers yearly

Over
11 000



Number of smoke vents manufactured in 2024

Nearly
3 000



04

Our strengths

- ▶ Polish product made of the best components
- ▶ Support of industry experts
- ▶ Rapid Quotation and Timely Implementation
- ▶ Modern machine park for processing metals, aluminium profiles and plastic
- ▶ Efficient communication when it comes to product, assembly, and implementation changes





We support the design activities

- ▶ Design unique solutions tailored to the customer's needs
- ▶ Preparation of technical documentation
- ▶ Technical support at every stage

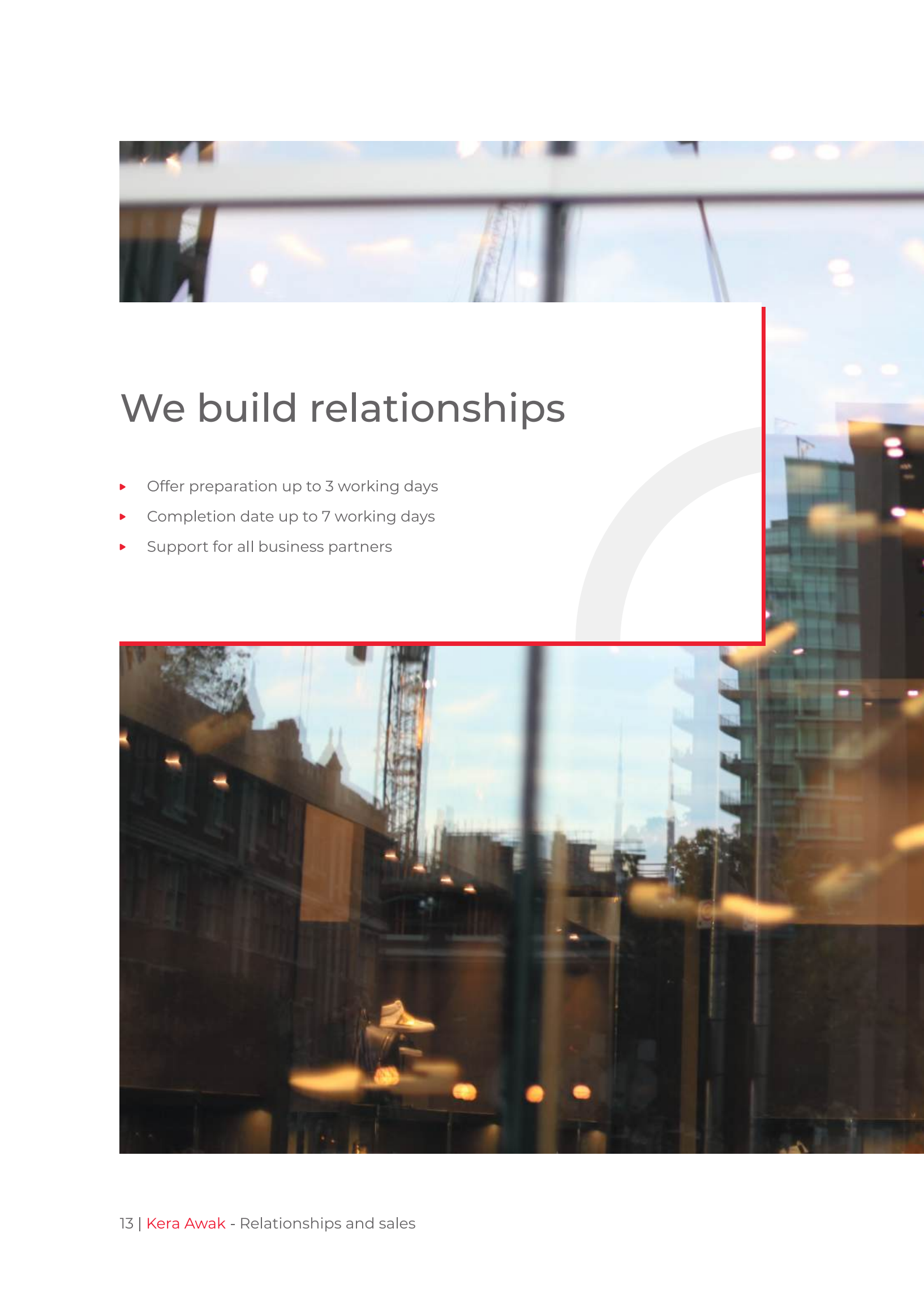




BIM Libraries

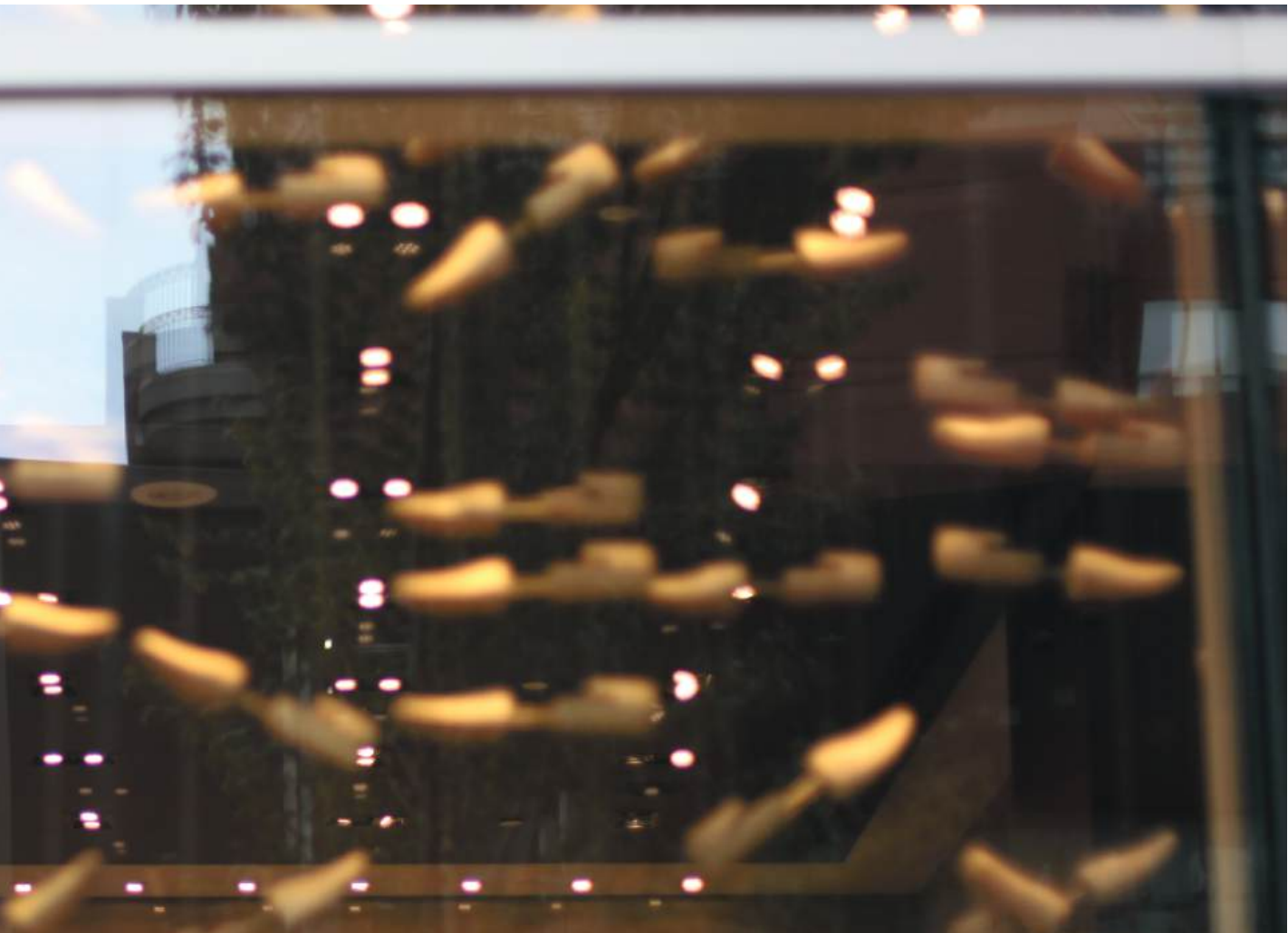
Technical support

- ▶ We provide technical support at every stage of implementation
- ▶ Over the years, we have developed a business model based on designing solutions dedicated to our customers
- ▶ We assist in design process with BIM files for Revit



We build relationships

- ▶ Offer preparation up to 3 working days
- ▶ Completion date up to 7 working days
- ▶ Support for all business partners



Sales support

Our priority is close cooperation with our business partners at every stage of implementation. We guarantee individual approach to the needs of every customer.



05

Our products

We offer the sale of products used in smoke ventilation systems, which remove smoke and hot air during a fire. When needed, we also provide guidance in selecting the most suitable smoke ventilation systems. Our services include installation, delivery, and maintenance of the purchased products. We provide warranty service for smoke vents and complete smoke ventilation systems.



NATURAL LIGHTING

Roof skylights and continuous rooflights are used in facilities where we wish to light up buildings with natural daylight. Compared to traditional windows mounted in the facade, they let in more daylight providing more efficient lighting of a particular facility.



VENTILATION

When rapid building ventilation is needed, rooflights equipped with gravitational ventilation functionality are highly effective. They enable efficient air circulation in the spaces below and operate silently, ensuring no noise disruption.



SMOKE EXTRACTION

The purpose of smoke vents is to extract the combustion by-products like smoke and toxic fumes from facilities where the fire occurs. The extraction of smoke and exhaust fumes facilitates the firefighting and rescue operation, and what is very important, the evacuation of people staying there. Fast detection of fire, efficient firefighting and rescue action, as well as extracting the smoke through the vents reduces the losses in both equipment and to the entire structure of the building.



COMMUNICATION

The rooflight structure with an integrated roof hatch function combines two key features. The first provides natural daylight to the interior, while the second allows safe and convenient access to the roof surface. Rooflights with a roof hatch function ensure easy and secure roof access. A special locking system protects the hatch against unauthorized opening.

Our products are used in:

HALLS | WAREHOUSES | COLD STORES | INDUSTRIAL BUILDINGS
LOGISTICS CENTRES | SPORT HALLS AND SIMILAR FACILITIES |
PUBLIC BUILDINGS | SHOPPING CENTRES

The systems we offer are fully certified. They are constructed in compliance with all standards and legal requirements. Moreover, they are durable and provide reliable solutions because we pay utmost attention to the quality of all structural elements. We can offer not only our products, but their assembly, repair, or modernisation, too. Additionally, we offer warranty, post-warranty, and maintenance services of our installations. Our employees are a team of professionals who advise on the right choice of particular systems, purchase, delivery, installation, and maintenance.

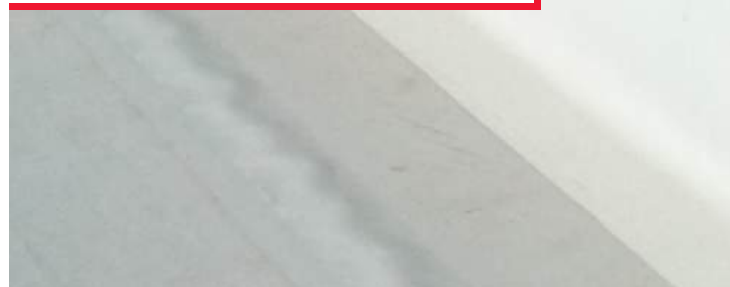


Smoke vents



Smoke vents are a key component of gravitational smoke exhaust systems, used to extract harmful substances generated during the fire. Thanks to its sunlight-transmitting cover, it can also function as a rooflight. Because of their construction features, these products are designed for use on flat roofs with a slope of up to 15°. Smoke vents are widely used in large-area facilities:

production halls, logistics centres, warehouses, sports facilities, high-rise buildings, and shopping centres. They are available in two variants: single-leaf and double-leaf.





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Single leaf smoke vents



CHECK THE CURRENT
TECHNICAL DATA

Dimension	from 100 x 100cm up to 200 x 300cm
Norm	EN 12101-2:2003 (PN-EN 12101-2:2005)
Certificate	Certificate of Constancy of Performance ITB No. 1488-CPR-0042/W
Declarations	Declarations of Performance (DOP) issued in accordance with Regulation 305/2011 (CPR) and standard EN 12101-2:2003 (PN-EN 12101-2:2005)



Technical description

Smoke vent upstand

consisting of four segments made of galvanized steel sheet with a thickness of min. 1.25 mm. Upstand height adapted to the roof structure and technical requirements: from 300 up to 1000 mm. Standard heights: 350, 500, 750 mm. Smoke vent upstands require a continuous supporting structure around the perimeter

Upstand types:

Straight
VENTS AWAK TYPE P, P2, P2+W*



Straight-slanted
VENTS AWAK TYPE PS2, PS2+W*



Slanted
VENTS AWAK TYPE S



*The vent with additional function of roof exit

Options for vent cover

- ▶ **Multiwall polycarbonate (PC)** – available thicknesses 10, 16, 20, 25 mm.
Outer polycarbonate layer covered with with a UV resistant coating
- ▶ **NRO Kera Fire Protect panel** – resistance to external fire exposure according to Broof(tl), thickness options: 21, 27, 33 mm
- ▶ **Domes** – single or multi-layer, material options: acrylic/solid polycarbonate
- ▶ **Transparent** – clear or opal (milky, standard for NRO Kera Fire Protect panels)
- ▶ **Solar Control** – multiwall polycarbonate covered with a special, additional coating that allows you to control the amount of solar radiation passing through the panel. Thanks to this, indoor spaces are better protected against excessive heating in the summer.

Actuators

Two types of actuators are used to open smoke vents:

- ▶ **electric** – 24 VDC with a power consumption from 2,0 A up to 8,0 A
- ▶ **pneumatic** – single (open) or two-way (open-close) actuators using CO2 cartridges.
For double-leaf smoke vents, two actuators are installed (one per leaf)

Wind Deflector

additional element increasing the smoke extraction active area of the smoke vent, made of galvanized steel sheet. Installed on the vent, outside the building.

Directional Nozzle

an additional element that increases the effective smoke extraction area, made of metal sheet. Assembled on upstand, inside the building.

Technical Parameters

- ▶ High smoke exhaust effective areas defined in the Declaration of Performance CE marking 1488-CPR-0042/W in accordance with EN 12101-2:2003
- ▶ **Re 1000** – reliable operation for 1000 opening and closing cycles of the vent leaf to the fire position. This means the trigger system can be activated 1000 times without performance loss
- ▶ **SL 250/SL 550/SL 650/SL 900** – guaranteed operation under loads of 250 N/m2, 550 N/m2, 650 N/m2 lub 900 N/m2 respectively, with an opening time below 60 s

Basic dimensions and characteristics in accordance with the harmonized standard

Vent type		Dimension of vent + dimension of opening in structure [mm].		Re	SL	T	WL	B
Single-leaf	AWAK P	min.	1000 x 1000	1000	250/550/900	00	1500	300/600
		max.	2000 x 3000					
	AWAK P2	min.	1000 x 1000	1000	550	00	1500	300
		max.	2000 x 3000					
	AWAK P2+W	min.	1000 x 1000	1000	550/650	00	1500	300
		max.	1500 x 1900					
	AWAK P52	min.	1000 x 1000	1000	550	00	1500	300
		max.	2000 x 3000					
	AWAK P52+W	min.	1000 x 1000	1000	550/650	00	1500	300
		max.	1600 x 2000					
	AWAK S	min.	1000 x 1000	1000	250/550/900	00	1500	300/600
		max.	2000 x 3000					

- ▶ **T (00)** – products of this class are suitable for buildings where temperature exceeds 0°C
- ▶ **WL 1500** - resistance to wind load 1 500 Pa, opening time below 60 s
- ▶ **B 300/B 600** - resistance to temerature of 300 °C and 600 °C respectively

Additional options

- ▶ **Ventilation** – a ventilation system can be additionally installed on the vent (dual-function vent), allowing for natural and economical everyday ventilation.
If the vent is equipped with an electric drive, both smoke extraction and ventilation functions are handled by the same 24 VDC actuator, while in the case of pneumatic control of the system, an additional actuator powered by 230 VAC is installed.
As standard for a double-leaf flap, one actuator is used to perform the ventilation function (one of the leaves is opened)
- ▶ **Roof exit** – function allowing access to the roof surface
- ▶ **Anti-fall protection grid**
- ▶ The internal side of the upstand can be painted in any RAL colour (standard RAL 9010)
- ▶ Possibility to equip the smoke vent with a smoke & ventilation system (e.g. control unit, smoke detectors, alarm buttons)

Extra options

- ▶ up to 10-year warranty for polycarbonate sheets and tightness
- ▶ 2-year warranty for actuators
- ▶ design and optimization of solutions tailored to customer needs
- ▶ support in technical documentation preparation
- ▶ technical advice at every stage

Double-leaf smoke vents



CHECK THE CURRENT
TECHNICAL DATA

Dimensions	from 170 x 170cm up to 300 x 300cm
Norm	EN 12101-2:2003 (PN-EN 12101-2:2005)
Certificate	Certificate of Constancy of Performance ITB No. 1488-CPR-0042/W
Declarations	Declarations of Performance (DOP) issued in accordance with Regulation 305/2011 (CPR) and standard EN 12101-2:2003 (PN-EN 12101-2:2005)



Technical description

Smoke vent upstand

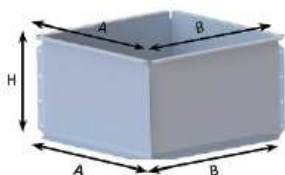
made of 4 segments of galvanized steel sheet with a min. thickness 1,25mm.

Upstand height adjusted to the roof structure and technical requirements, from 300 up to 1000 mm. Standard heights: 350, 500, 750 mm. Smoke vents upstands require a continuous support structure around the perimeter.

Upstand types:

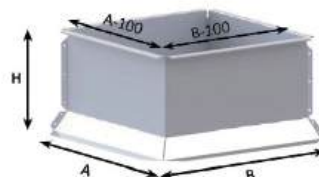
Straight

AWAK D type vents



Straight-slanted

AWAK DPS type vents



Vent covers

- ▶ **Multiwall polycarbonate (PC)** – available thicknesses: 10, 16, 20, 25 mm. External polycarbonate layer coated with UV protective film
- ▶ **NRO Kera Fire Protect panel** – resistant to external fire exposure according BRoof(t1), available thicknesses 21, 27, 33 mm
- ▶ **domes** – single or multi-layer, material options: acrylic/ solid polycarbonate
- ▶ **transparency** – clear (transparent) or opal (milky, standard for NRO Kera Fire Protect panels)
- ▶ **Solar Control** – multiwall polycarbonate with special additional coating that allows control of the amount of sunlight passing through the panel. This helps better protect indoor spaces from overheating during the summer

Actuators

Two types of actuators are used to open smoke vents:

- ▶ **electric** – 24 VDC with a power consumption from 2,0 A up to 8,0 A
 - ▶ **pneumatic** – single (open) or two-way (open-close) actuators using CO2 cartridges.
- For double-leaf vents, two actuators are installed (one per leaf)

Wind Deflector

additional component that increases the effective smoke exhaust area of the vent, made of galvanized steel sheet. Installed on the vent, outside the building.

Directional Nozzle

An additional element that increases the effective smoke exhaust area of the vent, made of metal sheet. Assembled on upstand, inside the building.

Technical parameters

- ▶ High smoke exhaust effective areas defined in the Declaration of Performance CE marking 1488-CPR-0042/W according to EN 12101-2:2003
- ▶ **Re 1000** – operational reliability over 1000 opening/closing cycles of the vent to fire position. It means 1000 activations of the release mechanism without loss of performance
- ▶ **SL 250/SL 550/SL 650/SL 900** – guaranteed performance under loads of 250 N/m², 550 N/m², 650 N/m² lub 900 N/m², opening time 60 s

Basic dimensions and characteristics in accordance with the harmonized standard

Vent type		Dimension of vent + dimension of opening in structure [mm].		Re	SL	T	WL	B
Double-leaf	AWAK D	min.	1600 x 1600	1000	550/900	00	1500	300/600
		max.	2000 x 3000					
	AWAK DPS	min.	1700 x 1700	1000	550/900	00	1500	300/600
		max.	3000 x 3000					

- ▶ **T (00)** – this class of product is considered suitable for use in buildings with indoor temperatures above 0 °C
- ▶ **WL 1500** - wind load resistance equal to 1,500 Pa, opening time less than 60 s
- ▶ **B 300/B 600** - temperature resistance: 300 °C and 600 °C, respectively

Additional options

- ▶ **Ventilation** – a ventilation system (dual-function vent) is additionally mounted to the vent, which enables natural and economical ventilation of the rooms on a daily basis. If the vent is equipped with an electric drive, the smoke extraction and ventilation function is operated by the same 24 VDC actuator, whereas in the case of pneumatic control of the system, an additional actuator powered by 230 VAC is installed. As standard for a double-leaf vent, one actuator is used to perform the ventilation function (one of the leaves is opened);
- ▶ **Anti-fall protection grid**
- ▶ The inner side of the base can be painted in any RAL color (standard: RAL 9010);
- ▶ Additional equipment for smoke vents in smoke and ventilation systems, e.g., control panels, smoke detectors, alarm buttons.

Additional options

- ▶ up to 10 years warranty for polycarbonate panels and tightness
- ▶ 2-year warranty for actuators
- ▶ design and optimization of solutions tailored to customer needs
- ▶ support in preparing technical documentation
- ▶ technical consulting at every stage

Roof skylights



Roof skylights are widely used in various types of buildings. They are mainly installed in large-scale facilities such as production **halls or warehouses**. They can also be successfully employed in **sports halls** or to illuminate passageways. Letting the natural sunlight into the interior of a facility allows to save on electricity costs.

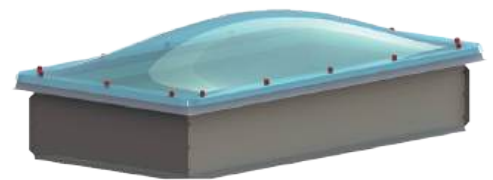


Fixed skylight



CHECK THE CURRENT
TECHNICAL DATA

Dimensions	from 60 x 60cm to 200 x 300cm
Norm	EN 1873:2005 (national equivalent: PN-EN 1873:2009)
Declarations	Declarations of Performance (DoP) issued in accordance with Regulation 305/2011 (CPR) and standard EN 1873:2005 (national equivalent: PN-EN 1873:2009)



Technical Description

The skylight upstand

- Made of galvanized steel sheet. Standard: straight or slant upstand with a height of 150, 350, 500, or 750 mm. The upstand should be insulated with a layer of mineral wool or PIR
- Made of PVC (straight upstand with a height of 200 mm or slanted upstand with a height of 150 or 300 mm)

Compensation frame (only for steel upstands)

Additional PVC frame which gives flat surface after isolation and membrain assembling and gives additional thermal barrier.

Skylight cover

The cover can be made of multiwall polycarbonate, solid polycarbonate, or acrylic domes. Available in two color variants: clear or opal (milky). The surface can be either domed (made of acrylic or solid polycarbonate) or flat (made of multiwall polycarbonate). Skylights made of multiwall polycarbonate an be produced according to BRoof(tl) classification.

Technical Parameters

- ▶ Skylights are available in sizes ranging from (60–200) × (60–300) cm
- ▶ **DL 750** – resistant to downward load up to 750 N/m²
- ▶ **UL 1500** – resistant to upward load up to 1500 N/m²
- ▶ **SB 300 - 1200** – resistant to impact with a large soft body
- ▶ **0,9 - 2,5 W/m²K** – thermal transmittance coefficient for the entire product.
The coefficient depends on the choice of cover and upstand
- ▶ Thanks to polycarbonate coverings with thicknesses of 21 mm (2×10 mm + fire-resistant fabric) and 27 mm (10+16 mm + fire-resistant fabric), the product is classified as non-fire-spreading (NRO) according to the BRoof(t1) classification

Additional Options

- ▶ Skylight can be equipped with an anti-fall protection grid or insect mesh
- ▶ Skylight can be equipped with anti-grab bars
- ▶ Possibility to use together with fire protection glass barrier (in class E30 or EI30)

Skylights with ventilation function



CHECK THE CURRENT
TECHNICAL DATA

Dimensions	from 60 x 60cm to 200 x 300cm
Norm	EN 1873:2005 (national equivalent: PN-EN 1873:2009)
Declarations	Declarations of Performance (DoP) issued in accordance with Regulation 305/2011 (CPR) and standard EN 1873:2005 (national equivalent: PN-EN 1873:2009)



Technical Description

Skylight upstand

- ▶ Galvanized steel sheet can be painted in any RAL color (basic colors: 9010, 9002, 9003). The upstand height is adapted to the roof structure and technical requirements, ranging from 150 to 750 mm. Standard heights: 150, 350, 500, 750 mm. Skylight upstands are made of four connected segments and require a supporting structure around the entire perimeter.
- ▶ PVC (polyvinyl chloride) with selectable heights: 200 mm – straight upstand, 150 or 300 mm – slant upstand. The upstand is manufactured as a monolithic unit. Requires a supporting structure around the entire perimeter.
- ▶ Types of upstands: straight, straight-slanted, or slanted

Skylight cover

- ▶ **Multiwall polycarbonate (PC)** – available thicknesses: 10, 16, 20, 25 mm. The outer layer of the polycarbonate is coated with a UV-protective film
- ▶ **NRO Kera Fire Protect panel** resistant to external fire exposure, classified as BROOF(t1) – available thicknesses: 21, 27, 33 mm
- ▶ **domes** – single- or multi-layer, material options: acrylic / solid polycarbonate
- ▶ **transparency** – clear (transparent) or opal (milky, standard for NRO Kera Fire Protect panels)
- ▶ **Solar Control** – multiwall polycarbonate with special additional coating that allows control of the amount of sunlight passing through the panel (better protect from overheating during the summer)

Compensation frame

Additional PVC frame which gives flat surface after isolation and membrain assembling and gives additional thermal barrier.

Hinged cover

The hinged cover consists of a frame and a cover. The cover can be made of multiwall polycarbonate, solid polycarbonate, or acrylic domes. Available in two color variants: clear or opal (milky). The surface can be either domed (made of acrylic or solid polycarbonate) or flat (made of multiwall polycarbonate). Skylights made of multiwall polycarbonate can be classified as NRO (non-fire-spreading). The frame is made of aluminum profile.

It is secured around the whole perimeter with gaskets, preventing water from getting inside the skylight.

Drive

To open skylights for ventilation purposes, the following opening systems are used:

- ▶ Manual screw opener (with removable crank) with 300 mm spindle stroke
- ▶ 230V electric actuator with 300 mm or 500 mm spindle stroke
- ▶ 24V electric actuator

Technical Parameters

- ▶ Skylights are available in sizes (60–200) × (60–300) cm
- ▶ **DL 750** – DL 750 – resistant to downward load up to 750 N/m²
- ▶ **UL 1500** – UL 1500 – resistant to downward load up to 1500 N/m²
- ▶ **SB 300 - 1200** – SB 300–1200 – resistant to impact from a large soft body
- ▶ **0,9 - 2,5 W/m²K** – thermal transmittance coefficient for the entire product.

The coefficient depends on the selected cover and upstand

- ▶ Cover made of multiwall polycarbonate, Kera Fire Protect NRO panels, or acrylic/solid polycarbonate domes (1 to 5 layers)

Additional Options

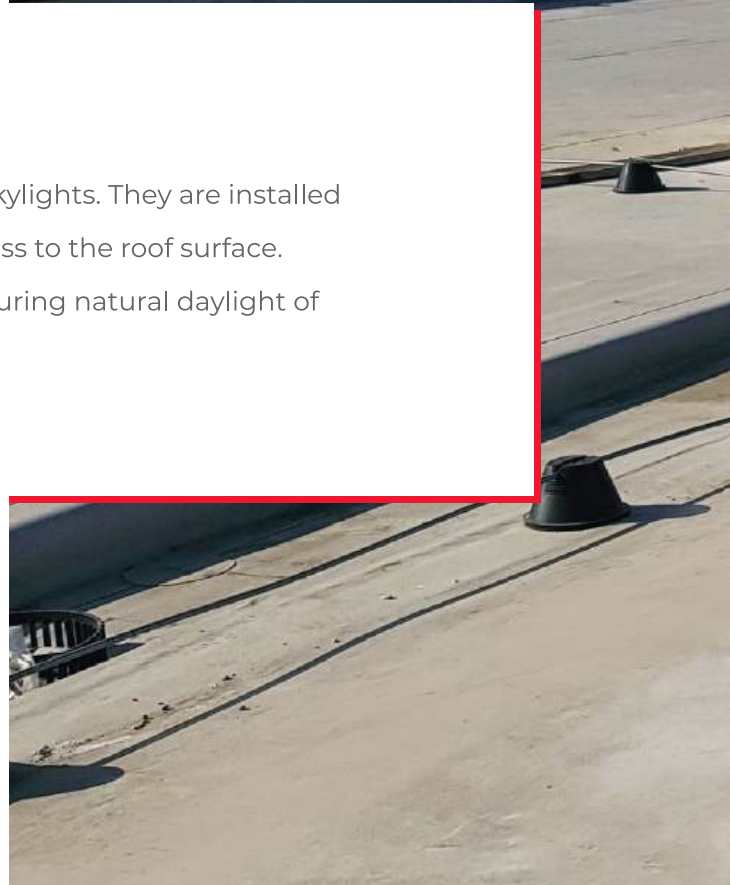
- ▶ Skylight can be equipped with an anti-fall protection grid or insect mesh
- ▶ Skylight can be equipped with anti-grab bars
- ▶ Possibility to use together with fire protection glass barrier (in class E30 or EI30)

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Roof exit hatch



Roof exit hatches feature a construction similar to skylights. They are installed above the roof surface of a building. They allow access to the roof surface. Additionally, they can also function as skylights, ensuring natural daylight of indoor spaces.





Roof exit hatches



CHECK THE CURRENT
TECHNICAL DATA

Dimensions	from 80 × 80 cm to 80 × 150 cm
Norm	EN 1873:2005 (national equivalent: PN-EN 1873:2009)
Declarations	Declarations of Performance (DoP) issued in accordance with Regulation 305/2011 (CPR) and standard EN 1873:2005 (national equivalent: PN-EN 1873:2009)



Technical Description

Upstand

- ▶ Made of galvanized steel sheet with a minimum thickness of 1.25 mm (standard: straight or slanted upstand with heights of 150, 350, 500, and 750 mm). The upstand should be insulated with a 40 mm layer of mineral wool or polystyrene.
- ▶ Made of PVC (straight upstand with a height of 200 mm or slanted upstand with a height of 150 or 300 mm).

Compensation frame

Additional PVC frame which gives flat surface after isolation and membrain assembling and gives additional thermal barrier.

Hinged cover

The hinged cover consists of a hinged frame and a cover. The cover is made of multiwall polycarbonate, solid polycarbonate, or acrylic domes. Available in two color variants: clear or opal (milky). The surface can be domed (made of acrylic or solid polycarbonate) or flat (made of multiwall polycarbonate). The hatch made of multiwall polycarbonate may be classified as Broof(t1)/NRO. The frame is made of PVC or aluminium profile. It is secured around the whole perimeter with gaskets, which prevent water from entering the skylight.

Drive

Roof exit hatches ensuring roof access are opened usually manually. To reduce the force needed to open the cover and maximise the user's comfort, there are installed gas springs and a handle with key-lock. Roof exit hatch can be also equipped with 24V or 230V drives for opening to 90 degrees.

Technical Parameters

- ▶ Roof exit hatches are available in sizes from (80–150) × (80–150) cm
- ▶ **DL 750** – DL 750 – resistant to downward load up to 750 N/m²
- ▶ **UL 1500** – UL 1500 – resistant to upward load up to 1500 N/m²
- ▶ **SB 300** – resistant to impact from a large soft body
- ▶ **0,9 - 2,5 W/m²K** – thermal transmittance coefficient for the entire product.

The coefficient depends on the selected cover and upstand

- ▶ Thanks to polycarbonate panels with a thickness of 21 mm (2×10 mm + fire-resistant fabric) and 27 mm (10 + 16 mm + fire-resistant fabric), the product is classified as non-fire-spreading (NRO) according to BRoof(t1) classification

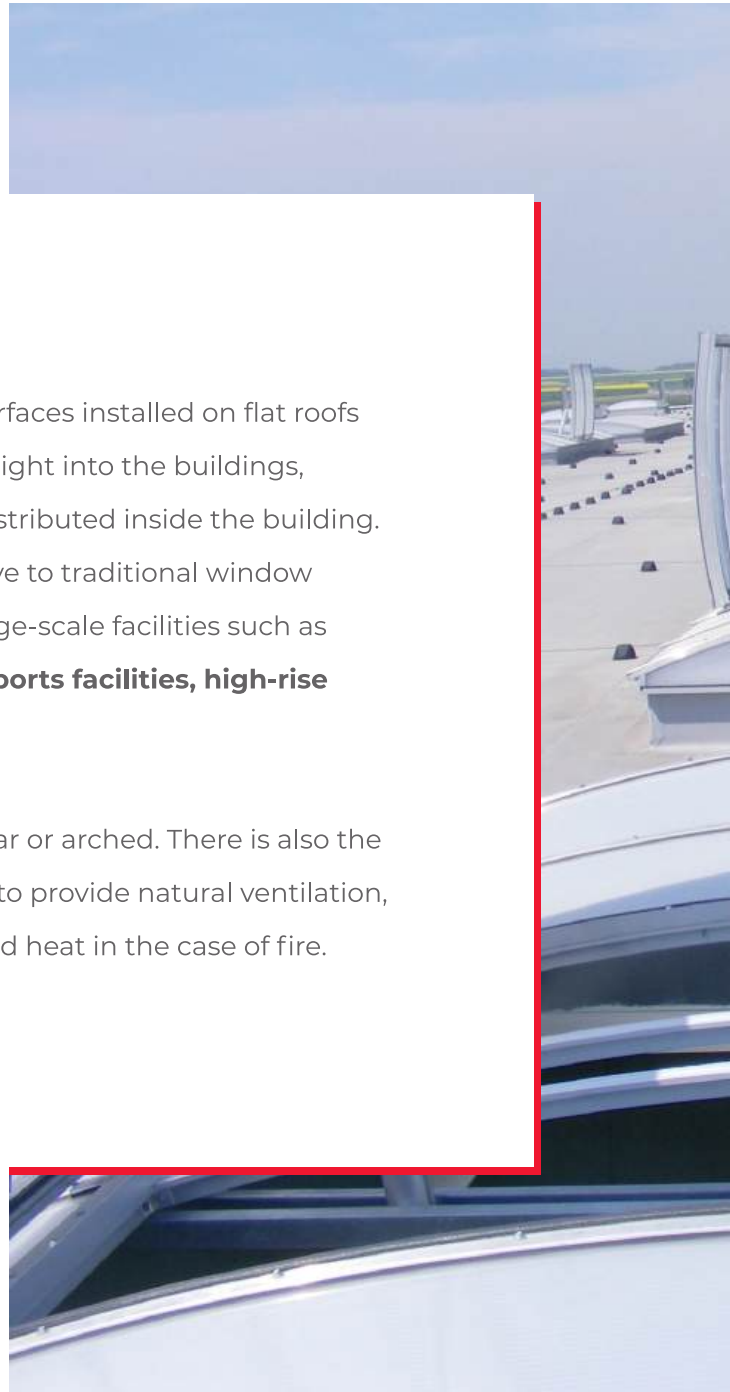
Additional Options

- ▶ The roof exit hatch can be equipped with anti-grab bars
- ▶ Inner side of the upstand can be painted in any colour from the RAL palette.

Continuous skylights

Continuous skylights are long, light-transmitting surfaces installed on flat roofs (up to 15°). Their purpose is to provide more natural light into the buildings, which enters through the openings and is evenly distributed inside the building. They are used as a perfect complement or alternative to traditional window lighting. Continuous skylights are widely used in large-scale facilities such as **production halls, logistics centers, warehouses, sports facilities, high-rise buildings, and shopping malls.**

They can be manufactured in two versions: triangular or arched. There is also the possibility to equip rooflights with ventilation vents to provide natural ventilation, or with smoke extraction vents to remove smoke and heat in the case of fire.





Continuous Skylights



CHECK THE CURRENT
TECHNICAL DATA

Dimensions	Single-leaf: 80×80 cm to 200×260 cm Double-leaf: 160×100 cm to 300×300 cm
Norm	Rooflights: EN 14963:2006 (PN-EN 14963:2006) Smoke vents: EN 12101-2:2003 (PN-EN 12101-2:2005)
Certificate	Smoke vents: Certificate of Performance Stability ITB Performance Certificate No. 1488-CPR-0114/W
Declarations	Smoke vents: Declarations of Performance (DoP) issued in accordance with Regulation 305/2011 (CPR) and based on standards: EN 14963:2006 / EN 12101-2:2003

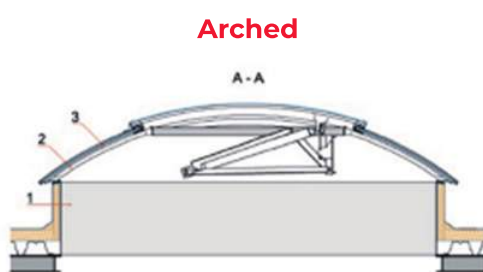
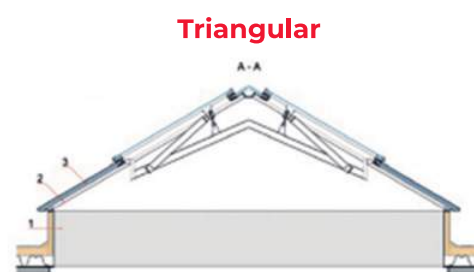


Technical Description

The upstand of a continuous skylights

Made of galvanized steel sheet with a thickness of 1.5 mm to 3 mm and a height of 150 mm to 750 mm. The upstands require insulation with mineral wool, polystyrene, or PIR foam with a thickness ranging from 50 mm to 120 mm.

Types of continuous skylights



Construction

Aluminium profiles connected with fasteners form a rigid and and cover profile that holds the covering.

Cover of continuous skylight

made of multiwall or cellular polycarbonate combined with a special fabric to create a fire-resistant covering compliant with Broof (t1)/NRO classification.

An additional component of continuous rooflights can be a smoke vent or ventilation flap.

The smoke vent is activated with either a 24 V electric drive or a pneumatic drive.

For ventilation function, the pneumatic drive is equipped with an additional 230 V actuator.

Technical Parameters

- ▶ Width from 0.8 m to 6 m for arched rooflights, or from 0.8 m to 4.5 m for triangular skylights
- ▶ DL 750 – standard resistance to downward load up to 750 N/m² (option to increase up to DL 2500)
- ▶ UL 1500 – upward load resistance up to 1500 N/m²
- ▶ SB 300 - 1200 – soft and heavy body impact resistance up to 1200 N/m²
- ▶ 1,1-2,5 W/m²K – thermal transmittance coefficient for the entire product. Value depends on cover and upstand version, e.g. Solar Control
- ▶ Smoke vents integrated into skylights (+ optional ventilation function)

Type/dimensions	Min [mm]	Max [mm]
Single-leaf	1000 x 1000	2000 x 3000
Double-leaf	1600 x 1600	3000 x 3000

- ▶ SL250 / SL550 / SL900 – reliable operation of smoke vents under loads of 250 N/m², 550 N/m² and 900 N/m² respectively
- ▶ High smoke exhaust effective arrea specified in the Declaration of Performance with CE mark 1488-CPR-0042/W in accordance with EN 12101-2:2003

Additional Options

- ▶ Anti-fall protection grid or anti-insect screen
- ▶ Anti-fall protection PP net
- ▶ Inside of the upstand can be painted in RAL 9010, 9002, 9003
- ▶ Option to integrate a smoke-ventilation system (e.g. control unit, smoke detectors, alarm buttons)

Projects in Poland

Industrial sector

ABC Logis Sp. z o.o. – two warehouse halls,
 Allpack Polska Sp. z o.o. – warehouse hall,
 Asclepios S.A. – warehouse hall,
 Strabag BMTI Regional Base,
 DINO Polska S.A. – logistics center,
 DINO Polska S.A. – logistics center,
 Gestamp Polska Sp. z o.o. – production facility,
 Aluminum Plant – Expansion,
 IKANO Industry Poland Sp. z o.o. – production and warehouse hall,
 IKEA Industry Poland Sp. z o.o. – warehouse hall,
 IKEA Industry Poland Sp. z o.o. – warehouse hall,
 Impakt S.A. – warehouse hall,
 Jakon Sp. z o.o. – production & warehouse hall,
 Jeronimo Martins Polska S.A. – distribution center,
 JMK Sp. z o.o. – warehouse hall,
 KABAT TYRE Sp. z o.o. – production & warehouse hall,
 KOIMEX S.A. – service & warehouse facility,
 Logistic Park P3 – warehouse hall,
 Nord Napędy Sp. z o.o. – production hall,
 Rosaco Polska Sp. z o.o. – warehouse hall,
 Volkswagen Poznań Sp. z o.o. – production & warehouse hall,

Chocicza Mała
 Kargowa
 Sieradz
 Pruszków
 Sieroniowice
 Sierpc
 Białeżyce
 Konin
 Rogoźno
 Chlastawa
 Lubawa
 Mosina
 Kajetany
 Modlinica
 Niałek Wieki near Wolsztyn
 Budzyń
 Świebodzin
 Robakowo
 Nowa Sól
 Koszalin
 Antoninek

Public Utility Buildings – Poland

University School of Physical Education (AWF),
 Administrative and Cultural Center,
 Collegium Martineum,
 Sports and Recreation Center (OSiR),
 Cross-Country Skiing and Biathlon Center,
 Kindergarten No. 4 "BAJKA",
 The Baptism of Poland Memorial Hospital,
 District Hospital M. Nencki,
 Faculty of Pharmacy,
 University of Pedagogy and Administration,

Poznań
 Obrzycko
 Poznań
 Buk
 Jakuszyce
 Toruń
 Gniezno
 Krotoszyn
 Poznań
 Poznań

Residential and Commercial Buildings

Leroy Merlin,
 Lidl – Shopping Center Redevelopment,
 "Jasminowe" Housing Estate – Residential Complex,
 "Nowe Tarnowo" Housing Estate,
 "Osada Złotnicka" Housing Estate,
 PSB Mrówka,
 Mercedes-Benz Showroom,
 Lexus Showroom,

Olsztyn
 Piła
 Poznań
 Tarnowo Podgórne
 Wrocław
 Trzebnica
 Gorzów Wlkp.
 Kraków

International Projects

Austria	
Warehouse,	Gebel
Office building,	Viena
Shopping center,	Viena
Production hall,	Vosendorf
Bulgaria	
Production hall Elacite med.,	Etropole
Production hall Domus NG,	Sofia
Czech Republic	
Kindergarten,	Doubravcice
Office building,	Praha 4
Lithuania	
Supermarket "Senukai",	Kaunas
Supermarket Utena,	Utena
Warehouse,	Vilnius
Secondary school,	Vilnius
Latvia	
Shopping center and warehouse,	Kekava
Warehouse,	Riga
Shopping center,	Riga
Romania	
Production hall Ralcorex,	Bucuresti
Production hall Lacoste,	Sibiu
Russia	
Production hall LG,	Dorohovo, MO
Shopping center Leroy Merlin,	Ekaterinburg
Production hall Hyundai,	Sankt Petersburg, Kamenka
Production hall Obuhovskiy,	Sankt Petersburg
Production hall Nestle,	Vorsino
Sports center,	Zvenigorod, MO
Sweden	
Production hall,	Jonkoping
Shopping center,	Stockholm Bromma
Slovakia	
Warehouse P1,	Bratislava
Ukraine	
Shopping center chain "Novus",	Ukraina
Hungary	
Production hall Mediterran,	Boly
Production hall NEMAK,	Gyor
Production hall Poliax,	Szfar



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