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PRODUCT CATALOGUE

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SMOKE VENTS
SKYLIGHTS
ROOF HATCHES
CONTINUOUS ROOFLIGHTS

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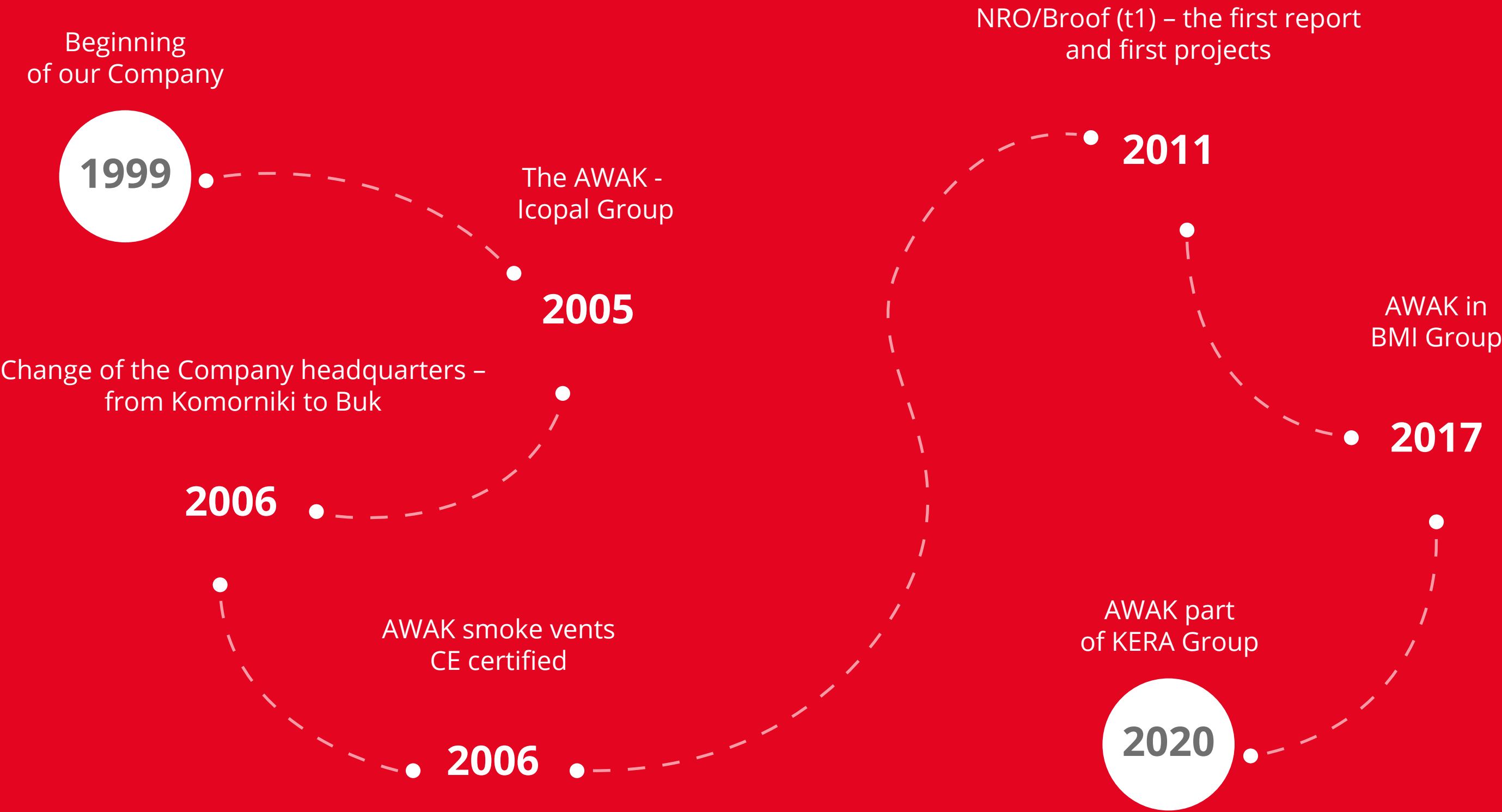
About us

The company AWAK has been operating on the market since 1999. At that time, AWAK has become an expert at production of smoke vents and dome skylights. In June 2005, AWAK signed with ICOPAL SA a mutual cooperation corporate agreement. Since that moment, AWAK has been operating within the international concern of ICOPAL. In 2017, as a result of the merger of ICOPAL and BRAAS MONIER, it became part of the BMI Group, Europe's largest manufacturer of roofing solutions for both pitched and flat roofs.

In September 2020, AWAK became part of the Finnish capital group KERA GROUP OY. KERA GROUP is a family company with 50 years of tradition in manufacturing and distribution of solutions for daylight and smoke control. It is also a leader on the Scandinavian market in production of roofing, terrace glazing, and winter gardens. By investing in technologies since 1971, it has ensured itself development resulting in its presence in nine European countries. The companies of KERA group are located in Finland, Norway, Sweden, Denmark, Lithuania, Latvia, Estonia, and Russia. For many years, the AWAK brand has been present on the Ukrainian, Romanian, Hungarian, and Balkan markets.



Our history



Company figures



Over
125 000 m2

The surface covered with
our products in the last 3 years



Over
11 000

Number of offers prepared
for our customers yearly



Nearly
3 000

Number of smoke vents
manufactured in 2020

Lighten up your success story

Our assets

- Polish product made of the best components
- Support of industry experts
- Quick quotations and swift 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

- We design unique solutions tailored to the clients' needs
- We prepare technical documentation
- We provide technical consulting at every stage

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 clients.

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.

We take care of logistics

- Experienced team of experts – the total experience of our team accounts for almost 100 years in the industry
- Cooperation with the best shipping companies in Poland

Efficient logistics

Owing to the fact that all elements of our rooflights and smoke vents are produced in Poland, we can efficiently manage the logistics of our deliveries. Additionally, a warehouse dedicated for completion of goods guarantees convenient loading.

Our offer



NATURAL LIGHTING

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



VENTILATION

A skylight combined with a gravity vent will be just perfect offering the function of swift ventilation of rooms when needed. This function provides good air circulation in the room in which such skylights are installed and, in addition, it does not disturb the quiet.



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 above all, 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 construction of a skylight combined with a roof hatch joins two functionalities. The first one is to illuminate the room, and the second one is to provide the roof access. The skylight with the roof hatch function provides an easy and safe access to the building's roof. A special hatch closure system secures it against being opened by unauthorised persons.

Our products are used in:

- Halls, warehouses, cold stores
- Industrial buildings
- Logistics centres
- Sports 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 particularly important part of the roof system. Their main purpose is to extract smoke when a fire occurs. They are also used to remove other life and health threatening fumes created in a fire. The smoke vent cover is made of a material that lets the sunlight in. It provides additional lighting to a facility. That way smoke vents function as skylights, too.



SINGLE LEAF SMOKE VENTS

Characteristics

- Smoke vents are used to extract smoke produced by a fire;
- They facilitate the evacuation of people by keeping a smoke-free layer in the lower part of the facility;
- Smoke vents facilitate the rescue team operations;
- Protect the building structure;
- Reduce indirect losses caused by the emitted smoke and hot fire gases;
- Serve as skylights providing more natural daylight in the premises in which they are installed;
- They can also be used as room vents if appropriate actuators are installed



Technical description

The upstand of the vent

- Made of galvanised steel sheet min. 1.25mm thick (straight, straight-slant or slant upstand 350 mm, 500 mm, and 750 mm high). The upstand should be insulated with a layer of mineral wool, polystyrene, or PIR foam 40 mm thick;
- Made of PVC (slant upstand 300 mm high). The upstand does not require insulation because it is insulated with a layer of expanded polystyrene.

Compensation frame

Once the upstand is fixed and finished, the special cut-outs in its corners enable easy snap-fit mounting of the PVC compensation frame.

Hinged cover

- The hinged cover consists of a frame and a cover. Covers can be made in the form of a dome (made of acrylic or solid polycarbonate) or flat (made of cellular polycarbonate). The cellular polycarbonate cover can be made in Broof (t1)/NRO classification;
- The frame is made of PVC or aluminium profile. It is secured around the whole perimeter with gaskets preventing water from getting inside.

Drive

The smoke vent is activated with either a 24 V electric drive or a pneumatic drive. Ventilation function will require to supplement the pneumatic drive with an additional 230 V actuator, while the 24 V drive will suffice for both smoke extraction and ventilation functions.

Technical parameters

- Single-leaf smoke vents are made in dimensions ranging from 100 cm x 100 cm up to 200 cm x 300 cm in various dimensions;
- Re1000 – They demonstrate operational reliability in 1000 cycles of opening and closing the smoke vent leaf to the ventilation position, 1000 cycles of activation of the trigger circuit without any loss of efficiency and efficient opening time not longer than 60 seconds;
- SL250 / SL550 / SL900 – reliable operation under a load of 250 N/m², 550 N/m², and 900 N/m², respectively
- WL1500 – wind load resistance up to 1500 Pa;
- B300 – temperature resistance up to 300 °C;
- 1.1-2.5 W/m²K – heat transfer coefficient for the entire product. The coefficient value depends on the choice of cover and upstand variants;
- Cover made of polycarbonate 21 mm, 27 mm, or 33 mm thick in accordance with the NRO/Broof (t1) requirements
- High values of smoke extraction parameters specified in the Performance Certificate 1488-CPR-0042/W.

Additional options

- Smoke vent can be equipped with an anti-fall grate or/and a mosquito net;
- Smoke vent can be equipped with anti-fall grab bars;
- Inner side of the upstand can be painted in any colour from the RAL palette;
- Retrofitting the smoke vent with a smoke extraction and ventilation system, e.g., smoke extraction control panel, smoke detectors, emergency buttons.



DOUBLE LEAF SMOKE VENTS

Characteristics

- Smoke vents are used to extract smoke produced by a fire;
- Smoke vents facilitate the evacuation of people by keeping a smoke-free layer in the lower part of the facility;
- They facilitate the rescue team operations;
- Protect the building structure;
- Reduce indirect losses caused by the emitted smoke and hot fire gases;
- Serve as a skylight. They provide more daylight in the premises in which they are installed;
- They can also be used as part of residential ventilation system if appropriate actuators are installed.



Technical description

The upstand and gutter of the upstand of a smoke vent

- Upstand made of galvanised steel sheet min. 1.25 mm thick (straight or straight-slant 350, 500, or 750 mm high). The upstand should be insulated with a layer of mineral wool or polystyrene 40 mm thick;
- The gutter of the upstand is made of galvanised steel sheet min. 1.25 mm thick. The gutter of the Upstand should be insulated with a layer of mineral wool or polystyrene min. 20 mm thick.

Compensation frame

Once the upstand is fixed and finished, the special cut-outs in its corners enable easy snap-fit mounting of the PVC compensation frame.

Hinged cover

The hinged cover consists of two frames and two covers made of cellular polycarbonate.

Smoke vents can be made in Broof (t1)/NRO classification.

The frame is made of PVC or aluminium profile. It is secured around the whole perimeter with gaskets preventing water from getting inside.

Drive

The smoke vent is activated by two 24 V electric drives or two pneumatic drives. Ventilation function will require to supplement the pneumatic drive with an additional 230 V actuator, while the 24 V drive will suffice for both smoke extraction and ventilation functions.

Technical parameters

- Large surfaces of smoke vents, up to 300 cm x 300 cm;
- Re1000 – They demonstrate operational reliability in 1000 cycles of opening and closing the smoke vent leaf to the ventilation position, 1000 cycles of activation of the trigger circuit without any loss of efficiency and efficient opening time not longer than 60 seconds;
- SL250 / SL550 / SL900 – reliable operation under a load of 250 N/m2, 550 N/m2 and 900 N/m2;
- WL1500 – wind load resistance up to 1500 Pa;
- B300 – temperature resistance up to 300 °C;
- 1.1-2.5 W/m2K – heat transfer coefficient for the entire product. The coefficient value depends on the choice of cover and upstand variants;
- Cover made of polycarbonate 21 mm, 27 mm, or 33 mm thick in accordance with the NRO/Broof (t1) requirements
- High values of smoke extraction parameters specified in the Performance Certificate 1488-CPR-0042/W.

Additional options

- Smoke vent can be equipped with an anti-fall grate or/and a mosquito net;
- Smoke vent can be equipped with anti-fall grab bars;
- Inner side of the upstand can be painted in any colour from the RAL palette;
- Retrofitting the smoke vent with a smoke extraction and ventilation system, e.g., smoke extraction control panel, smoke detectors, emergency buttons.

Roof skylights

Roof skylights are widely used in various types of facilities. They are mainly used in large-scale facilities, such as production halls or warehouses. They can 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

Characteristics

- Roof skylights provide convenient lighting and even distribution of daylight;
- Popular application of skylights is spot lighting of workstations located directly under the skylight;
- Application of skylights helps to minimise electricity costs.



Technical description

The skylight upstand

- Made of galvanised steel sheet min. 1.25 mm thick (straight or slant 150 mm, 350 mm, 500 mm, or 750 mm high). The upstand should be insulated with a layer of mineral wool, polystyrene or PIR foam 40 mm thick;
- Made of PVC (straight upstand 200 mm high or slant 150 mm or 300 mm high). The upstand does not require insulation because it is insulated with a layer of expanded polystyrene.

Compensation frame

Once the upstand is fitted and finished, the special cut-outs in its corners enable easy snap-fit mounting of the PVC compensation frame.

Skylight cover

The cover can be made of cellular polycarbonate, solid polycarbonate, or acrylic glass. The cover comes in two variants: transparent or milky. Additionally, the cover can be made in the form of a dome (acrylic glass or solid polycarbonate) or flat (cellular polycarbonate). The cellular polycarbonate cover can be made in Broof (t1)/NRO classification.

Technical parameters

- Skylights are made in dimensions ranging from 60 cm x 60 cm up to 200 cm x 300 cm in various dimensions;
- DL 750 – downward load resistance up to 750 N/m2;
- UL 1500 – upward load resistance up to 1500 N/m2;
- SB 300 – soft and heavy body impact
- 1.1-2.5W/m2K – heat transfer coefficient for the entire product. The coefficient value depends on the choice of cover and upstand variants;
- Cover made of polycarbonate 21 mm, 27 mm, or 33 mm thick in accordance with the NRO/Broof (t1) requirements.

Additional options

- Skylight can be equipped with an anti-fall grate;
- Skylight can be equipped with anti-fall grab bars;
- Possibility to use an additional E30/EI30 partition;
- Inner side of the upstand can be painted in any colour from the RAL palette;



SKYLIGHTS WITH VENTILATION FUNCTION

Characteristics

- Roof skylights provide convenient lighting and even distribution of daylight;
- Popular application of skylights is spot lighting of workstations located directly under the skylight;
- Skylights with ventilation function enable natural ventilation of the rooms in which they are installed;
- Application of skylights helps to minimise electricity costs;
- They have a wide application in large facilities, as they can effectively replace traditional windows.



Technical description

The skylight upstand

- Made of galvanised steel sheet min. 1.25 mm thick (straight or slanted upstand 150 mm, 350 mm, 500 mm, or 750 mm high). The upstand should be insulated with a layer of mineral wool, polystyrene or PIR foam 40 mm thick;
- Made of PVC (straight upstand 200 mm high or slant upstand 150 mm or 300 mm high). The upstand does not require insulation because it is insulated with a layer of expanded polystyrene.

Compensation frame

Once the upstand is fixed and finished, the special cut-outs in its corners enable easy snap-fit mounting of the PVC compensation frame.

Hinged cover

The hinged cover consists of a frame and a cover. The cover can be made of cellular polycarbonate, solid polycarbonate, or acrylic glass. Additionally, the cover can be made in the form of a dome (acrylic glass or solid polycarbonate) or flat (cellular polycarbonate). The cellular polycarbonate cover can be made in NRO classification. The frame is made of PVC or aluminium profile. It is secured around the whole perimeter with gaskets preventing water from getting inside.

Drive

The following opening systems are used in skylights to ventilate facilities:

- A manual screw opener (with a detachable crank) with the spindle extension length of 300 mm;
- 230 V electric actuator with the spindle extension length of 300 mm or 500 mm and ventilation buttons;
- 24 V electric actuator.

Technical parameters

- Skylights are made in dimensions ranging from 60 cm x 60 cm up to 200 cm x 300 cm in various dimensions;
- DL 750 – downward load resistance up to 750 N/m²;
- UL 1500 – upward load resistance up to 1500 N/m²;
- SB 300 – soft and heavy body impact
- 1.1-2.5 W/m²K - heat transfer coefficient for the entire product. The coefficient value depends on the choice of cover and upstand variants;
- Cover made of polycarbonate 21 mm, 27 mm, or 33 mm thick in accordance with the NRO/Broof (t1) requirements

Additional options

- Skylight can be equipped with an anti-fall grate and/or mosquito net;
- Skylight can be equipped with anti-fall grab bars;
- Inner side of the upstand can be painted in any colour from the RAL palette.

Roof hatches

The construction of roof hatches resembles skylights. They are mounted above in the roof surface of a facility. They provide access to the roof area. Moreover, they can serve as skylights providing more natural daylight.



ROOF HATCH

Characteristics

- A roof hatch is an easy-to-install and reliable in use structure ensuring safe access to the roof area;
- They also provide daylight to the highest storeys of flat roof facilities and staircases in multi-storey buildings.



Technical description

The upstand of a roof hatch

- Made of galvanised steel sheet min. 1.25 mm thick (straight or slant 150 mm, 350 mm, 500 mm, or 750 mm high). The upstand should be insulated with a layer of mineral wool, polystyrene or PIR foam 40 mm thick;
- Made of PVC (straight upstand 200 mm high or slant 150 mm or 300 mm high). The upstand does not require insulation because it is insulated with a layer of expanded polystyrene.

Compensation frame

Once the upstand is fixed and finished, the special cut-outs in its corners enable easy snap-fit mounting of the PVC compensation frame.

Hinged cover

The hinged cover consists of a frame and a cover. The cover can be made of cellular polycarbonate, solid polycarbonate, or acrylic glass. Additionally, the cover can be made in the form of a dome (acrylic glass or solid polycarbonate) or flat (cellular polycarbonate). The cellular polycarbonate roof hatch can be made in Broof (t1)/NRO classification. The frame is made of PVC or aluminium profile. It is secured around the whole perimeter with gaskets preventing water from getting inside.

Drive

Roof hatches ensuring roof access are opened manually. In order to reduce the force needed to open the cover and maximise the user's comfort, gas springs and a handle are used.

Technical parameters

- Roof hatches are made in dimensions ranging from 60 cm x 60 cm up to 150 cm x 150 cm in various dimensions;
- DL 750 – downward load resistance up to 750 N/m2;
- UL 1500 – upward load resistance up to 1500 N/m2;
- SB 300 – soft and heavy body impact
- 1.1-2.5 W/m2K – heat transfer coefficient for the entire product. The coefficient value depends on the choice of cover and upstand variants;
- Cover made of polycarbonate 21 mm, 27 mm, or 33 mm thick in accordance with the NRO/Broof (t1) requirements.

Additional options

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

Continuous rooflights

Continuous rooflights are long and light-transmitting surfaces mounted in roofs. They are mounted above the roof surface. Their purpose is to illuminate the usable areas with natural light. They are used in various buildings and industrial halls. The sunlight coming through continuous rooflights is evenly distributed inside facilities. It is a perfect complement or substitute of window lighting.



CONTINUOUS ROOFLIGHTS

Characteristics

- The use of continuous rooflights allows to reduce the need for artificial lighting and thus greatly reduces the electricity bills;
- Continuous rooflights can be equipped with a ventilation flap providing natural ventilation of facilities;
- They are widely used in large-scale facilities, i.e., production halls, logistics centres, warehouses, sports facilities, high-rise warehouses, and shopping centres;
- Continuous rooflights can be equipped with a smoke vent for smoke extraction;
- They can be made in two variants: triangular or arched.



Technical description

The upstand of a continuous rooflight

The upstand is made of galvanised steel sheet 1.5 mm – 3 mm thick and 150 mm – 750 mm high. The upstand should be insulated with a layer of mineral wool, polystyrene, or PIR foam 50 mm or 100 mm thick. The upstand is mounted on a constructed supporting structure. Optionally, the upstand can be made in a self-supporting version with a max. 6 metres row spacing of support points.

Structural and cover aluminium profiles

The structural profiles, correctly connected together with fasteners, constitute a rigid and light frame in which covers are fixed. Cover profiles are the finishing elements of a continuous rooflight.

Cover of a roof light

The cover of a continuous rooflight is made of cellular polycarbonate or cellular polycarbonate combined with a special fabric, owing to which we will receive a product that can be classified into non fire spreading class Broof (t1)/NRO.

Smoke vent or ventilation flap in a continuous rooflight

The flap or vent in a continuous rooflight is an additional element. The smoke vent is activated with either a 24 V electric drive or a pneumatic drive. Ventilation function will require to supplement the pneumatic drive with an additional 230 V actuator, while the 24 V drive will suffice for both smoke extraction and ventilation. With ventilation function only just one 230 V actuator is used.

Technical parameters

- Width up to 6 m for arch continuous rooflights or 4.5 m for triangular continuous rooflights;
- DL 750 – downward load resistance up to 750 N/m2;
- UL 1500 – upward load resistance up to 1500 N/m2;
- SB 300 – soft and heavy body impact
 - 1.1-2.5 W/m2K – heat transfer coefficient for the entire product. The coefficient value depends on the choice of cover and upstand variants;
- Cover made of polycarbonate 21 mm, 27 mm, or 33 mm thick in accordance with the NRO/Broof (t1) requirements.

Additional options

- Option to equip the elongated skylight with ventilation, smoke or smoke and ventilation hatch ;
- Option to equip with anti-fall grate and anti-insect screen;
- Option to equip elongated skylights with anti-fall grips;
- Option to use an additional E30/EI30;
- Option to paint the upstand from the inside in any RAL colour;
- Continious skylights hatches equipped with a smoke venting and ventilation system elements, for example smoke venting control panel, smoke detectors, alarm buttons.



Projects in Poland

Industrial projects

- ABC Logis Sp. z o.o. two warehouse halls
- Allpack Polska Sp. z o.o. warehouse
- Asclepios S.A. warehouse
- Regional base Strabag BMTI Centre
- DINO Polska S.A. logistic centre
- DINO Polska S.A. logistic centre
- Gestamp Polska Sp. z o.o. manufacturing plant
- Aluminium Ironworks extension
- IKANO Industry Poland Sp. z o.o. production hall and warehouse
- IKEA Industry Poland Sp. z o.o. warehouse
- IKEA Industry Poland Sp. z o.o. warehouse
- Impakt S.A. warehouse
- Jakon Sp. z o.o. production and warehouse hall
- Jeronimo Martins Polska S.A. distribution centre
- JMK Sp. z o.o. warehouse
- KABAT TYRE Sp. z o.o. production and warehouse hall
- KOIMEX S.A. service and warehouse hall
- Logistic Park P3 warehouse
- Nord Napędy Sp. z o.o. manufacturing hall
- Rosaco Polska Sp. z o.o. warehouse
- Volkswagen Poznań Sp. z o.o. production and warehouse hall

Public utility facilities

- AWF
- Administrative and Cultural Centre
- Collegium Martineum
- OSiR
- Cross-country Skiing and Biathlon Center
- Kindergarten no. 4 "BAJKA"
- Hospital of Pomnik Chrztu Polski
- Powiat Hospital of M. Nencki
- Faculty of Pharmacy
- Higher School of Pedagogy and Administration

Residential and service buildings

- Leroy Merlin
- Lidl redevelopment of a shopping centre
- Jaśminowe housing estate
- Nowe Tarnowo housing estate
- Osada Żłotnicka housing estate
- PSB Mrówka
- Mercedes-Benz car show room
- Lexus car show room

- Chocicza Mała
- Kargowa
- Sieradz
- Pruszków
- Sieroniowice
- Sierpc
- Białeżyce
- Konin
- Rogoźno
- Chłastawa
- Lubawa
- Mosina
- Kajetany
- Modlinica
- Niałek Wieki koło Wolsztyna
- Budzyń
- Świebodzin
- Robakowo
- Nowa Sól
- Koszalin
- Antoninek
- Poznań
- Obrzycko
- Poznań
- Buk
- Jakuszyce
- Toruń
- Gniezno
- Krotoszyn
- Poznań
- Poznań
- Olsztyn
- Piła
- Poznań
- Tarnowo Podgórne
- Wrocław
- Trzebnica
- Gorzów Wlkp.
- Kraków



Foreign projects

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