ALUMINIUM WINDOWS AND DOORS CATALOGUE
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Effector SA is present in the construction industry since 1993. We made our debut on the market over 20 years ago offering aluminum gutter drips for wooden windows. Today Effector is recognized in the market as a manufacturer of aluminum elements addressed to various customers. The manufacturing plant in Włoszczowa produces not only gutter drips but also aluminum window linings, glazing beads and thresholds for doors, wooden-aluminum window systems, finishing strips and elements for interior design.

Thanks to the extensive knowledge and many years of experience, the Company offers specialized services of surface and mechanical treatment of aluminum (anodizing, powder coating, electropolishing and polishing, veneering, sand blasting, machining such as: cutting, bending, drilling, punching, etc.).

A wide assortment of aluminum treatment skills and the access to cutting-edge technologies resulted in the preparation of a comprehensive offer in the field of prefabrication of aluminum windows and doors.

Effector’s latest proposition is addressed to companies that manufacture woodwork or PVC windows and doors and want to expand their offer with durable and functional aluminium products.

Depending on customer expectations Effector provides complete or prefabricated (only cut to size, drilled etc) products. Production is carried out on the basis of systems Aluprof and Ponzio, using glazing manufactured by Effect Glass. On request we use systems SCHÜCO and REYNAERS.

Products made by Effector are characterized by high quality and functionality. Thanks to these features our clients are always satisfied. Our aluminium windows and doors are manufactured quickly and offered in attractive prices. The finished product is complete, made in a requested colour and provided with all accessories (seals, fittings, closers, screws). Investing in modern machinery and the experience of our employees make Effector able to meet even the most complex requirements.
Aluminium window and door systems allow you to create various types of windows and doors depending on the range of applications and specific requirements related to functionality, aesthetics, thermal insulation, security, smoke protection and fire resistance. They include structures without thermal insulation used for making internal partitions and balconies, as well as solutions using thermally insulated profiles.

A significant part of the system is available in the „HI“ version, characterized by special fillings in the profiles (shapes), decreasing the coefficient of thermal conductivity. On the basis of a number of series systems folding doors, security structures and smoke ventilation windows can be made. For customers who want to combine high technical specifications with affordable prices we offer a wide range of economic solutions. Structures based on multiple systems tailored to the needs of the investment.

Structures on the basis of multiple systems are precisely designed for the needs of the investment.
**MB-45** – window and door system, for interior

It is a modern aluminium system (so-called “cold” system) that is used mainly for producing interior design elements – various types of partitions, windows, doors, including sliding, swing, automated, vestibules, cash boxes, cabinets, and other spatial structures. Provides the basis for special solutions, such as partitions, doors, smoke-tight MB-45D doors and groove-fitted doors MB-45S.

The basic set of elements for MB-45 system includes profiles and accessories in optimal shapes. It enables producing light, durable and functional structures. System offers a wide selection of door sealing variants, shapes and threshold heights. There is also the possibility to bend profiles and to create arch structures.

**PT-50** – window and door system, for interior

It is a set of aluminium profiles without thermal insulation used mainly for producing internal structures, e.g. partitions, cash boxes, display cases and vestibules. PT-50 can be successfully used to produce sliding, swing and smoke-tight doors.

Window and door system allows the use of a variety of fillings: glass, aluminum panels, “sandwich” type fills, furniture boards, plasterboard and polycarbonate with a thickness of 1-40 mm.

The structural depth - for frames and sashes - ranges from 52 to 60 mm. PT-50 is a system for swing and coplanar doors with the butt hinge. The advantage of hinges mounted axially is the simplicity of installation and the adjustment in three planes.

**System features:**

- Various options for the preparation of door leaves (sashes) (with a wide beam, leaf cut at an angle of 45 degrees, with or without threshold),
- capability of facing the windows in a single plane on the outside, and the doors (both planes on the outside and the inside),
- the option of making smoke-tight doors,
- connection with other systems from Ponzio family (common elements such as corner connections, glazing beads, tools, and most of the hardware).
**MB-60** – window and door system with thermal and acoustic insulation, for exterior

The system for producing external structures that require thermal and acoustic insulation. With the elements from this system it is possible to produce various types of windows e.g. windows with so-called hidden side MB-60US, rotary windows MB-60 Pivot, and Industrial windows (they have a steel-like look). In this system, we offer also security windows and doors.

The system allows you to produce various types of windows and doors, including large doors and security structures. Profiles included in the system have three chambers and thermal break ‘omega’.

![Window profile MB-60HI](image1)

![Door profile MB-60](image2)

**PT-52** – window and door system with thermal and acoustic insulation, for exterior

The system is designed for making external building elements that require thermal insulation. It creates the opportunity of applying different solutions while producing various types of windows, doors and spatial structures. Simple and omega-shaped thermal breaks used in the system guarantee correct dehydration of the structure. Depth of profiles for frames and sashes is 52-60 mm.

![Window profile PT-52](image3)

![Door profile PT-52](image4)
MB-70 is a modern aluminium system used to make the external architectural building elements that require thermal and acoustic insulation, e.g. various types of windows, doors, vestibules, spatial structures.

System profiles have a three-chamber structure. The structural depth of the window sections is equal to 70 mm (frame), 79 mm (sash), and the door. 70 mm. Such depths of sash profiles and frame sections give the effect of a single plane from the outside after closing - in the case of the window, and the facing effect to door leaves (sashes) and frame - in the case of the door.

The shape of the profiles allows achieving slender and resistant windows and doors. The MB 70 is characterized by a extremely low heat transfer coefficient U. It is achieved thanks to using special thermal breaks and seals. This is important in an era of increasing demands for energy management and environmental protection.

UF coefficient for the MB 70 system structure depending on the applied profiles and accessories ranges from 1.5 to 2.39 W/m²K. The system uses thermal omega-shape breaks with a width of 34 (windows) and 24 mm (doors) which are made of polyamide reinforced with glass fiber.

Breaks' shape increases the stiffness of profiles as compared to flat ones. It facilitates drainage of profiles, thus ensuring proper thermal insulation in all weather conditions. Thermal breaks used in the windows have additional seal at the junction of sections, as well as the element dividing the chamber between the internal and external aluminum into three parts.

The tightness is ensured by the use of special seals made of two-component EPDM synthetic rubber: solid and cellular, which provides resistance against ageing during long-term use and very good thermal insulation. MB 70 is the first system in which the central seal is made of this kind of material. The system allows the use of sets of glass with thickness from 21 mm to 57 mm in window sashes and from 12 mm to 48 mm in fixed windows and door leaves (sashes). This wide range of fillings' thickness options guarantees the use of all types of standard and non-standard glazing. The MB 70 is the base for solutions with enhanced thermal insulation: MB 70 HI.
The window and door system MB-86 is a product, which can have three different variants of shapes (profiles), i.e. ST, and SI AERO, with different energy saving parameters. This set of windows and doors is made of aluminium in the production of which airgel was used. This material guarantees a very good thermal insulation. MB-86 offers also high strength and durability of profiles, which allows to produce structure with large size or weight.

The features that have an impact on both practical and aesthetic parameters of the structure made in the MB-86 are as follows:

- Dehydration available in two versions: traditional or hidden,
- Glazing strips equipped with additional seals,
- A wide range of glazing, including different types of glass, e.g. security, acoustic and double-chambered,
- Profiles adapted for mounting different types of hardware (including hidden hinges),
- Thermal breaks that allow placing the barrier in the isolation zone of profiles,
- Central seal consisting of two components, which not only seals, but also isolates the area between the sash and the frame,
- Wide range of shapes (profiles), which guarantees achieving a required aesthetic effect and strength of the structure.
The economic system, which has a three-chamber design with groove profiles in “euro” standard and the groove used in windows and balcony doors made of PVC profiles. Depth of shapes (profiles) for the frames is 52 mm, and 60 mm for the sashes. The system allows the use of a wide range of hardware, and facilitates their installation. Three-chamber profile design ensures great stiffness of profiles. Thanks to this, making large structures is possible.
The entrance door is one of the most important decorative elements of every home. They protect us from the cold, rain, burglars, and fence off the street noise. When choosing them, pay attention to the heat transfer coefficient and water resistance.

Effector company manufactures panel entrance doors based on system **ALUPROF MB-86**.

The panel door can be made in various sizes, up to 1.40 m wide and 2.60 m high. Panel thickness is 44 mm single-sided and double-sided - 77 mm. Entrance doors are offered in the standard RAL colours: 9016, 9006, 7001, 7016, 9007, 3004, 8019, and DB METALLIC STRUCTURE colour. Other colors and wood-effect decors can be made on special request.
The standard doors colours

Other colors and wood-look decors can be made on special request.

Available models
The patio lifting-sliding doors Eden Effect provide users with high comfort, regulate the indoor climate and noticeably reduce the demand for electricity. The use of such a solution in the investment minimizes heating costs in winter and reduces the frequency of using air conditioning in summer. Aluminium doors Eden enable perfect lighting for the rooms and facilitate contact with the external environment. It is an interesting proposition connecting living rooms and winter gardens with a terrace, a balcony or an open space of the garden.

The MB-77HS system used in patio doors Eden made by Effector guarantees high performance parameters and meets the most stringent requirements placed on this group of products. It offers two different variants of thermal insulation structure: ST and HI.

It is a universal solution that is increasingly used in residential and public buildings, such as sanatoriums and hotels. Maximum size of one part is 3,2 m (height) for 3,3 m (width). We offer a wide range of RAL colours plus a palette of wood-effect colours. Warranty is three years on paintwork and 12 months for moving parts (e.g. hinges).
Facade systems

Facade systems are used to make the glazed facade of public buildings, such as banks, hotels, offices, office buildings, car showrooms, sports halls, shopping malls, railway stations, etc. They are also used to make many unusual spatial structures and roof glazing, the main task of which is to provide enough lighting into the buildings and create inside an optimal climate and comfort for users. Facade systems are excellent tools for making unique, distinctive, and even visionary realizations as well as for active shaping of contemporary architecture.

The most popular in this group are the mullion and transom systems. The offer of ALUPROF facade solutions covers an exceptionally wide range of products and components (various shapes, looks etc) including also individual solutions. An important place in the ALUPROF facade systems offer is occupied by mullion-transom wall MB-SR50N.

It has versions with enhanced thermal insulation: MB-SR50N HI and MB-SR50N HI +, as well as types allowing for making structures with different looks, such as the so-called vertical or horizontal line or “half-structural” facade MB-SR50N EFFECT.

When it comes to opening elements the MB-SR50N system is the basis for such structures as hinged-withdrawable windows MB-SR50N OW, windows integrated into the facade MB-SR50N IW, and also very aesthetic and functional roof windows MB-SR50N RW. The post and beam system MB-SR50N is also the base for fire resistant facades MB-SR50N EI and glazed roofs. Roof structures in fire protection version can be optionally made on the basis of this system.

Modern and ambient glass facades for demanding customers

ALUPROF facade offer also includes structural glazing systems: MB-SG50 and the semi-structural MB-SG50 SEMI designed to produce facades that give the buildings a prestigious appearance and a representative character.

The supplement of facade systems is a EXTRABOND ventilated wall whose external layer is made of wall cladding. It ensures high aesthetic qualities and a very good thermal insulation of buildings. A separate group of facade systems are partial walls, such as MB-SE75 and individual project solutions, e.g. systems developed according to strict criteria developed in collaboration with the designers of buildings. These systems are designed to meet the unusual project-specific requirements in terms of aesthetic and technical parameters.
Fixed fire windows are made of aluminium profiles joined by means of thermal break that creates multi-chamber profile. They are filled with multi-layered panes separated with gel that absorbs thermal energy or opaque panels made of glass or aluminium. Aluminium profiles are highly resistant and durable. They do not warp and discolour. Professionally installed fixed fire windows are an effective firewall that prevents temperatures from reaching above 140°C on the other side of the partition (at 1 m distance). At the same time they prevent fire and smoke from entering into the room. The mounting system includes seals (swelling at high temperatures) which prevent the penetration of smoke and fire by proper sealing of aluminum windows and doors.

Effector offers aluminium fire doors based on system MB78EI. Doors meet the highest standards and technical requirements. They have Certificate of Building Research Institute. Doors offer high standards in terms of fire resistance, smoke protection, quality of production, and modern design.

Effector fire doors are made of top quality aluminium profiles that guarantee very good thermal insulation parameters. They meet technical requirements for fire resistance classes (from EI 15 to EI 60) and smoke control class Sm and Sa, which is confirmed by the ITB Certificate. Aluminium doors can be used both as external and internal doors, filled with glazing or opaque panels. Available as single or double.

Fire protection aluminium windows and doors

Fire protection windows

Fire doors

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Window shutters

Aluminium window shutters are new products that have broadened windows and doors prefabrication offer of EFFECCTOR. They serve multiple decorative and practical functions. Shutters effectively protect windows against damage, noise, and unwanted intruders. In summer, they protect interior against too intense sunlight, and in winter they save from cold, snow, and wind. Shutters are made of high quality aluminium profiles and fittings produced by leading European brands (e.g. METRA, AGB).

Effector offers the three mounting options: traditional—mounting the shutters on the wall; directly on the window frame (this option offers optimal protection against external factors); or on shutter frame. They can be opened and closed manually or more conveniently with the help of practical mechanisms: the crank (the simplest) or controlled by the electric engine. Maximum product size is 1200 mm (width) x 2500 mm (shutter height).

EFFECTOR’s offer includes frame window shutters, shutters equipped with fixed or movable fins with universal, timeless design. They can be made in any colour from wide RAL range or range of wood decors. Aluminium-made window shutters are much easier to maintain, and more resistant to adverse weather conditions than products made of wood and PVC.
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