HQ:
Tytusa Chalubinskiego str., 8,
Warsaw, Poland, 00-613
+48 690 553 459

Office/Showroom:
Accustraat 27-B1, 3903 LX
Veenendaal, the Netherlands
+31 6 4294 65 23

Office:
1922 NE 149 str North Miami,
Fl zip code 33181
+1 (305) 965 7291

www.dvgroup.global

Don't miss out on your future

DV GROUP

HANDBOOK

Chief Executive Officer's Message

Dear Friends,

Welcome to DV GROUP, where practical innovation and skilled craftsmanship come together in aluminum facade systems.

We specialize in creating aluminum facades that not only look great but also are sustainable and energy efficient. From concept to completion, we handle every step – developing, designing, producing, and installing facades that fit each project's unique vision.

We work on everything from modern buildings to historic renovations, always aiming to create something that stands the test of time.

At the core of DV GROUP is a team of committed professionals who care deeply about doing great work. We believe in working together and staying flexible so we can take on projects of all kinds. Our turnkey approach allows us to deliver results that are both smart and well-designed.

I'm proud of our team – for making ideas happen, for helping shape better spaces, and for building strong, lasting partnerships with our clients.

Govor Vitali
CEO
DV GROUP

DV GROUP

aluminum & solar facades

HQ in Warsaw, Poland
Office in North Miami, USA
Factory in Lublin, Poland
Factory in Kolobrzheg, Poland
Hub in Uherce, Czech Republic
Office in Breda, the Netherlands
Showroom in Veenendaal, the Netherlands
Office in London, the UK

DV GROUP

The DV GROUP is an innovative aluminum systems company that delivers outstanding facade projects worldwide.

We are a dynamically growing international group of companies.

Our expertise is lies in developing, producing, and installing various types of facades made from a wide range of materials, including all types of glass and aluminum.

Since 2020, our team intensified our efforts toward developing sustainable and energy-efficient facades.

- **245**
  SPECIALISTS
- **18**
  YEARS ON THE MARKET
- **150+**
  COMPLETED PROJECTS

We are equipped to manage projects of any complexity, anywhere in the world. Together, we create new projects with unique and modern features and give a new life to the architecture of past generations.

Our services:

Engineering
Development
Production
Installation
After-sales service

Our offers:

Solar Facade Systems
Solar Facade Walls
Energy-efficient facades
Energy-saving facades

Our materials:

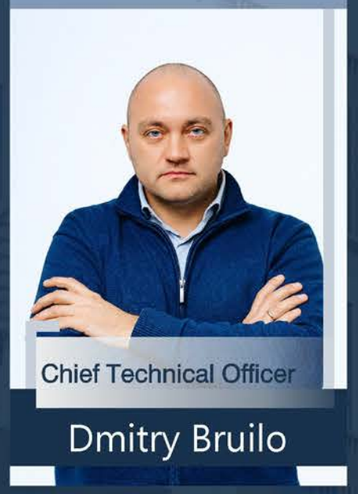
Glass
Aluminum
Steel
Composite materials
Premium wood
PVC
BIPV modules

Our Executive team

Our Executive team is more than just a group of professionals—it is a dynamic collaboration of talented individuals united by a shared purpose. Together, we pursue ambitious goals, such as launching innovative products or refining existing solutions. Each member contributes their unique expertise while fostering a culture of support and creativity.

Chief Executive Officer

Vitali Govor



Chief Technical Officer

Dmitry Bruilo

Chief Operating Officer

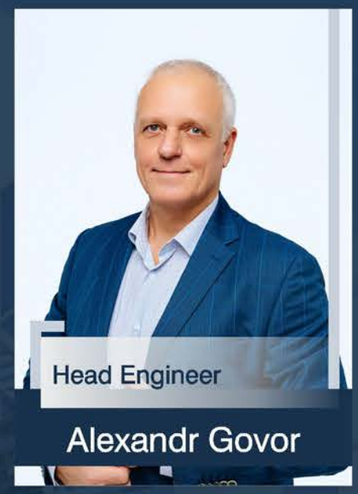
Evgenia Bruilo

Chief Visionary Officer

Dorota Kobus

Head of Solar Facade System Department

Marc de Winter



Head Engineer

Alexandr Govor

Head of Regional Business Development Department

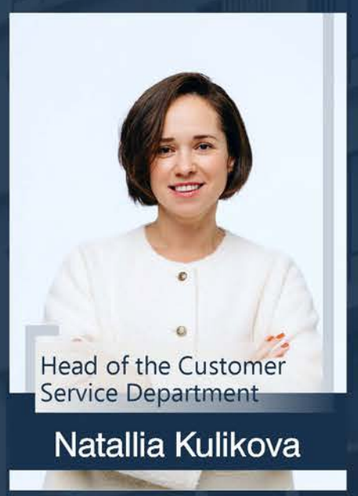
Maryna Boiba

Head Architect

Igor Sinizki

Chief Designer

Dmitry Belski

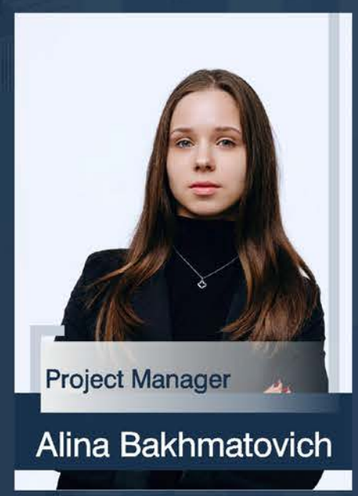


Head of the Customer Service Department

Natallia Kulikova

Project Manager

Olga Shamovich



Project Manager

Alina Bakhmatovich

WHAT WE DO

FROM CONCEPT TO FULL IMPLEMENTATION AND ONGOING SUPPORT, WE MANAGE EVERY ASPECT OF YOUR PROJECT

WE DO

One of the main features of our company is our turnkey approach. It allows us to deliver even the most complex and unconventional projects, while maintaining the highest standards of quality and functionality.

production

we innovate

concept design

we deliver

logistics

we aspire

we create

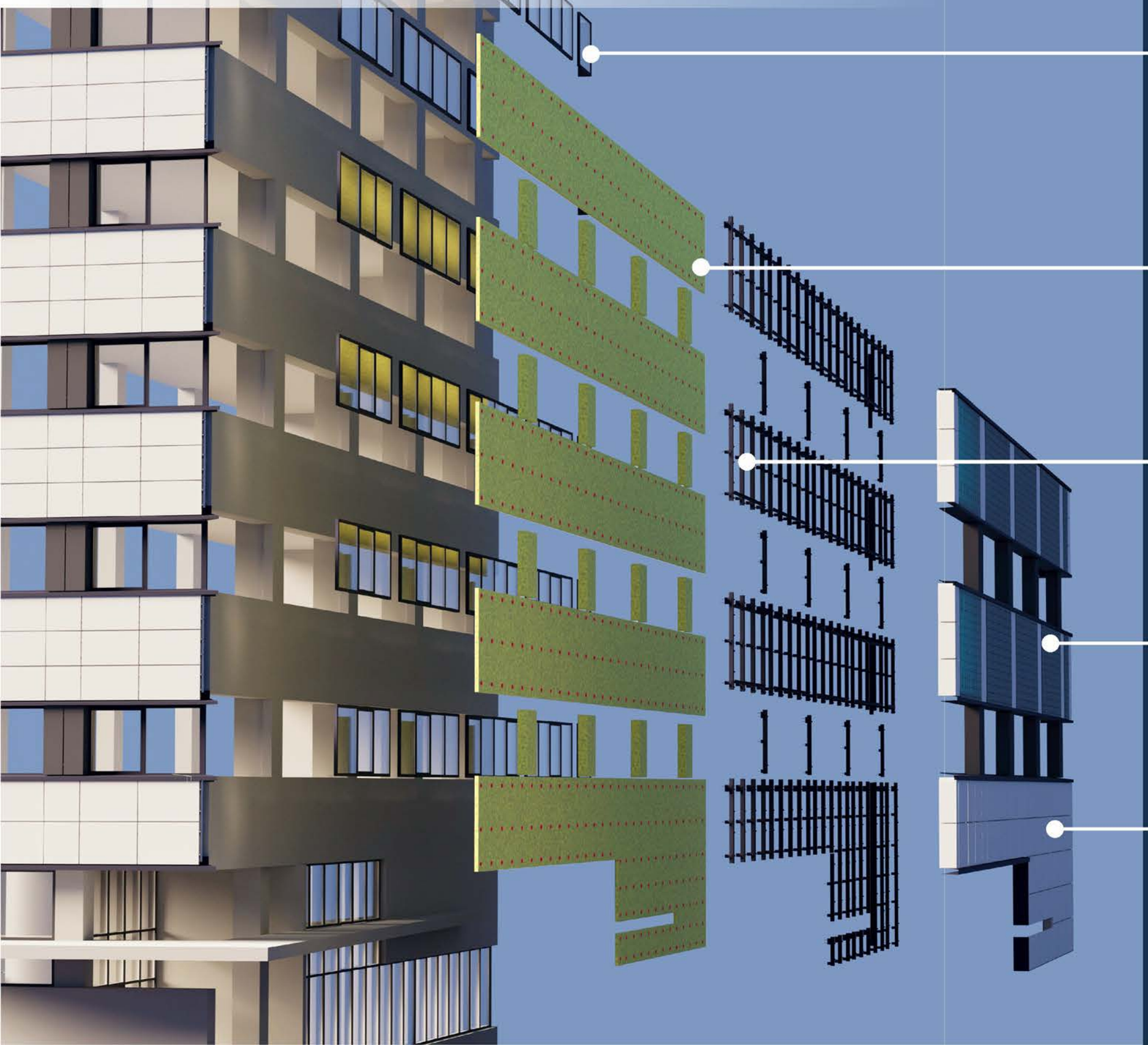
engineering

we achieve

installation

after-sales support

STAGES OF OUR PROJECT DEVELOPMENT



Comprehensive Aluminum Structures

We offer a wide range of aluminum structures, including doors, windows, and facade systems, from our own production. With three production facilities we ensure swift and efficient service in the EU, North America, and Asia. Our aluminum facades are shipped directly to clients within 5–6 weeks of contract signing and prepayment.

Insulating Materials

We use the most modern insulating materials for our facades, including vacuum panels.

Aluminum Substructure Systems

Our aluminum substructure systems, primarily consisting of brackets and profiles, are specifically designed for ventilated facades which distinguishes them on the market.

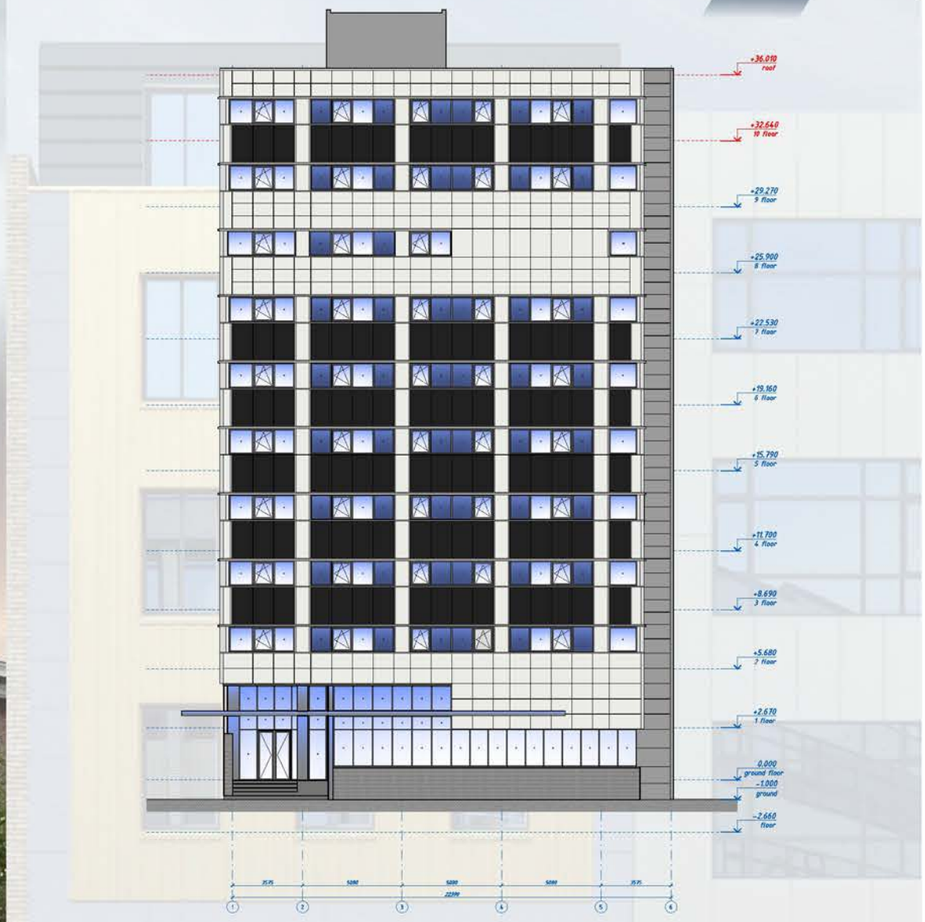
Solar Facade Systems

Our Solar Facade System is a complete building facade solution that integrates BIPV with Vacuum Glass.

Versatile Decorative Materials

We provide a wide range of facade decorative materials to meet the aesthetic requirements of our customers, such as aluminum composite panels, decorative stone, glass panels, and more.

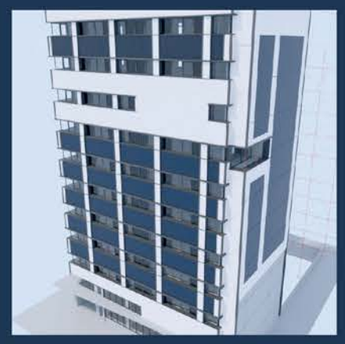
DESIGNING



We provide a full range of design and engineering options including:

- Project management
- Fabrication drawings
- 3D Modeling
- Design drawings and general drafting
- Pre-construction stage drawings
- Technical drawings, material and glass orders
- Installation drawings
- Structural calculations

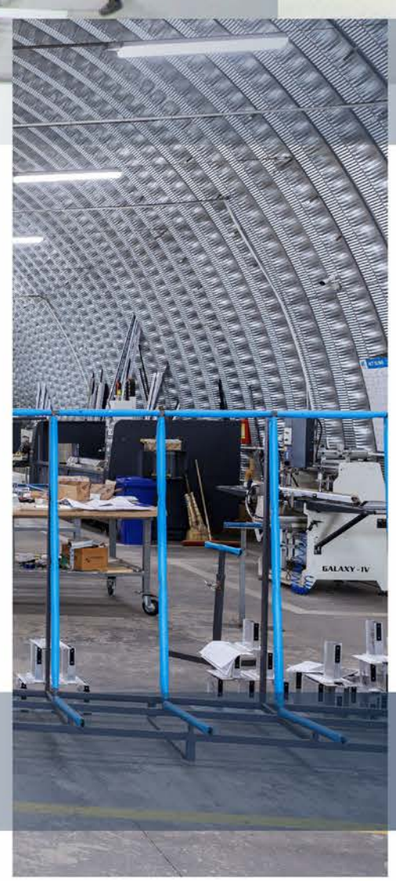
Our team of engineers creates detailed drawings required for the production of structures, as well as 3D models of buildings. These models enable customers not only to envision their project but also to see how it will appear in real life.



PRODUCTION

Our in-house production facilities, full automation of production processes, and use of equipment from leading European suppliers ensure high-quality results.

We maintain strict quality control to eliminate defects, testing products at every stage—from raw material inspection in our own laboratories to operational testing of finished products at dedicated test sites.

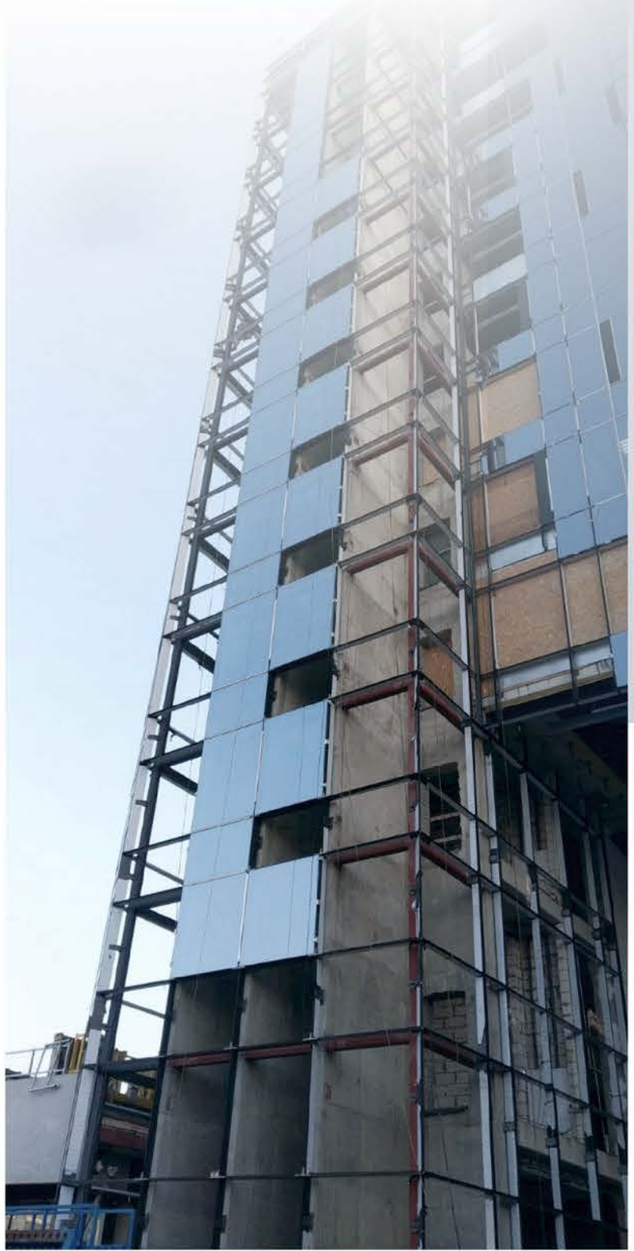


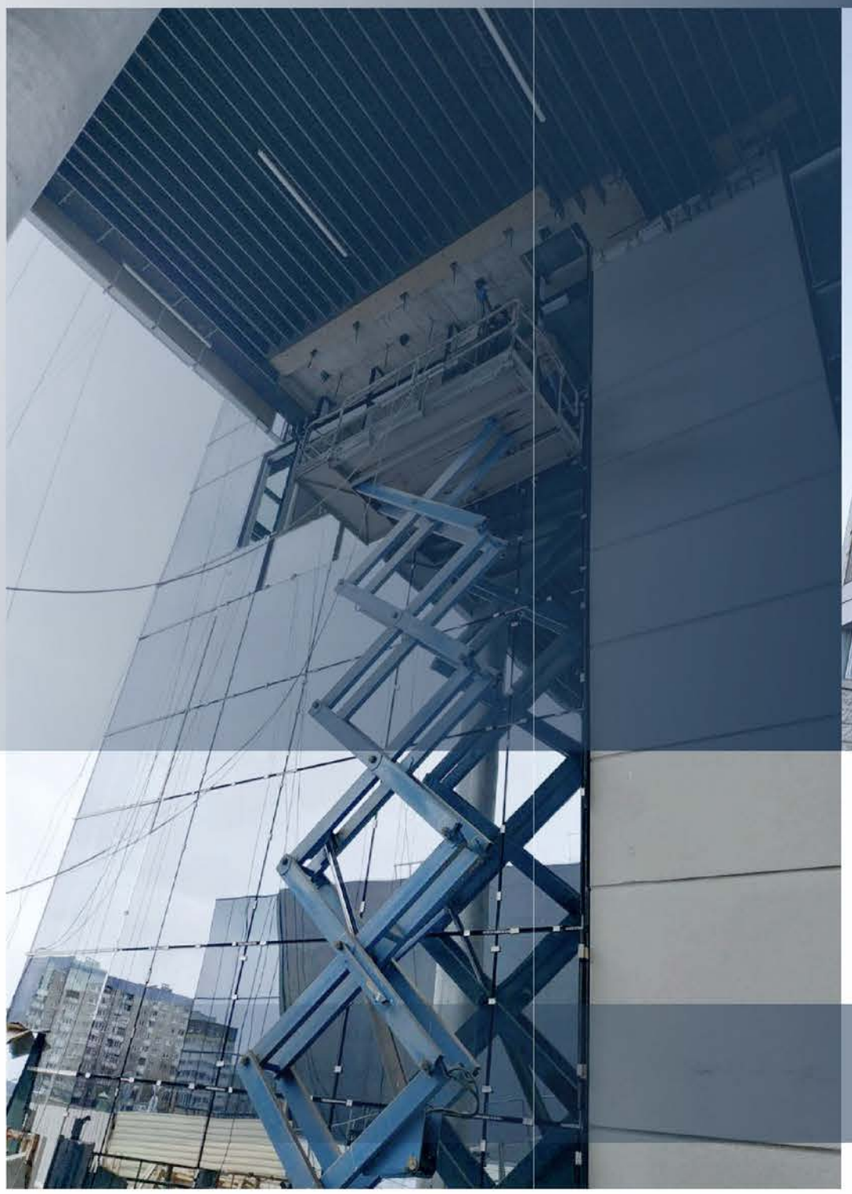
The production capacity of DV GROUP allows us to manufacture all necessary components for your facades. Our product range includes aluminum facades, windows, and doors; galvanized and stainless steel substructures; and a wide selection of finishing panels, such as hinged metal elements. Additionally, we provide modern automatic access control systems for entrance areas, fully integrated with ventilation and fire suppression systems.

Licence №3000

INSTALLATION

We offer installation services for all our products, along with comprehensive post-installation support. Our installation team consists exclusively of qualified professionals, all of whom hold the necessary certificates and licenses to operate within the European Union.



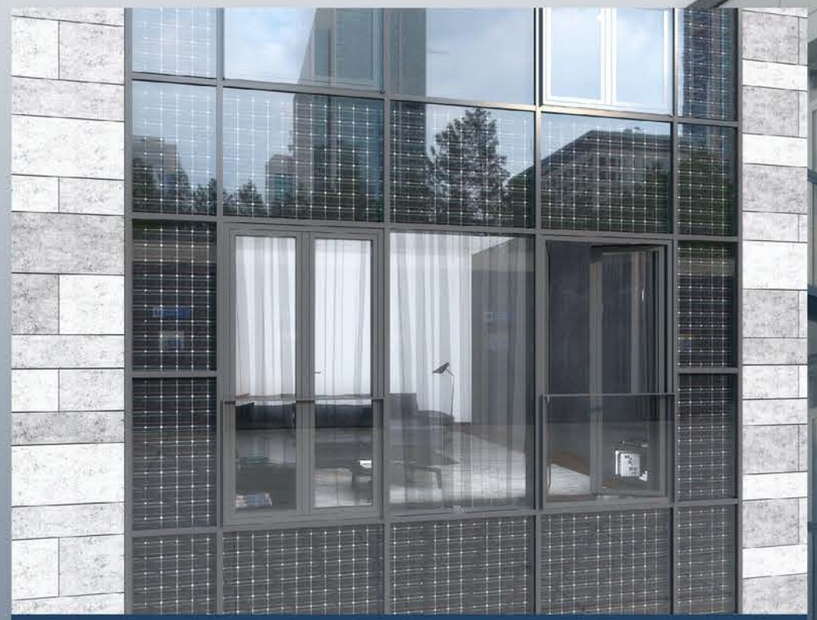


Our team handles even the most complex projects, applying innovative methods and solutions for all types of building facades. Rest assured, we remain in close contact with you after installation is complete. Should you have any questions or concerns, please do not hesitate to reach out to us.

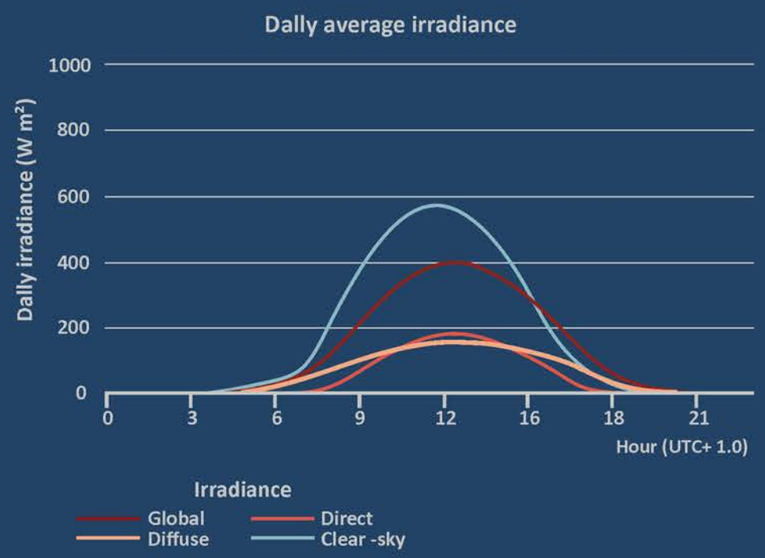
TAKING CARE OF THE FUTURE STARTS TODAY

Join us in taking the first step toward a bright, energy-efficient, and environmentally friendly future with our PlantForm Facade

SOLAR FACADE SYSTEMS



The Solar Facade System is a comprehensive building facade solution integrating Building-Integrated Photovoltaics (BIPV) and vacuum glass for energy efficiency and sustainability.



- Owner metadata for warranty and service
- Weather monitoring for energy generation predictions
- Accurate geolocation per panel
- Current measurements per panel
- Temperature measurements for each cell
- Voltage measurements per panel
- Blockchain-encrypted smart gateway
- Vibration measurement per panel
- Smart inverter with energy storage
- Adjustable mounting angle per panel

SOLAR FACADE SYSTEMS

Our Solar Facade System offers a wide range of color variations for glass and profiles to suit your project's aesthetic. The images below show only a fraction of what you can choose from.

The Solar Facade System enables the use of renewable energy sources, helps owners reduce financial costs, and aligns with modern environmental requirements.

The System also includes modern energy-efficient Sash side windows. They are ideal for both office buildings and private residences.

SOLAR FACADE SYSTEMS

Solar Facade Systems significantly reduce the effect of overheating in summer and cooling down in winter.

The system comprises:

- Aluminum facade profiles
- Vacuum Insulated Glass
- BIPV modules
- High-performance insulation
- Ventilated aluminum cladding
- Cabling for BIPV and inverters
- Battery storage systems
- Integrated doors and windows

Solar Wall applications include office buildings, residential properties, and logistics centers.

ALUVAC SYSTEM

(Part of the Solar Facade System)

BENGglas Vacuum Glass is ideal for renovations and new constructions.

The key features:

- Extremely thin (6.3 mm), fits existing frames without replacements.
- Offers excellent noise reduction and thermal performance.

Applications:

- Automotive industry
- Refrigerated displays, wine coolers, and appliances
- Greenhouses and modular construction

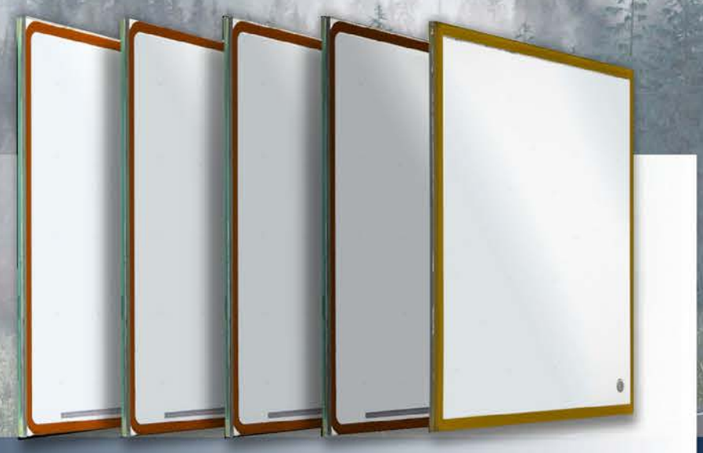
BENGglas™

Performance Specifications:

- **BENGglas Extra Clear: LTA 83%**
- **BENGglas MAX: U = 0.40 (Double coating)**
- **Solar Control: G = 0.29**
- **8.3mm, tempered glass**
- **Noise reduction 36dB**

Additional Options:

- **Laminated interior window, fall proof**
- **Double**
- **Double with laminated glass**
- **Shaped glass**
- **Monumental glass options**
- **Clear, extra clear**



SOLARIX

Solarix develops colored solar panels that seamlessly integrate into sustainable and aesthetic facades, providing architects and developers endless creative possibilities.

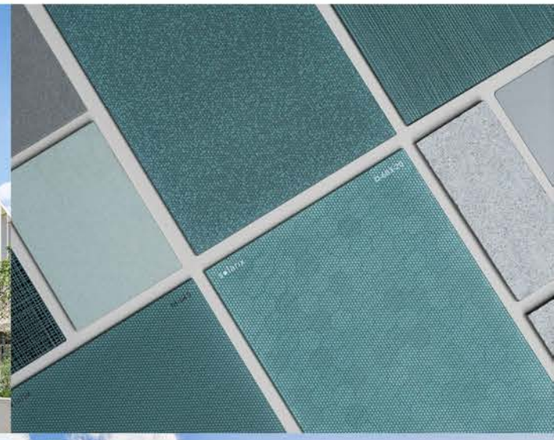
For bespoke projects, they offer a tailored process to collaboratively develop a design that perfectly aligns with the project's vision.

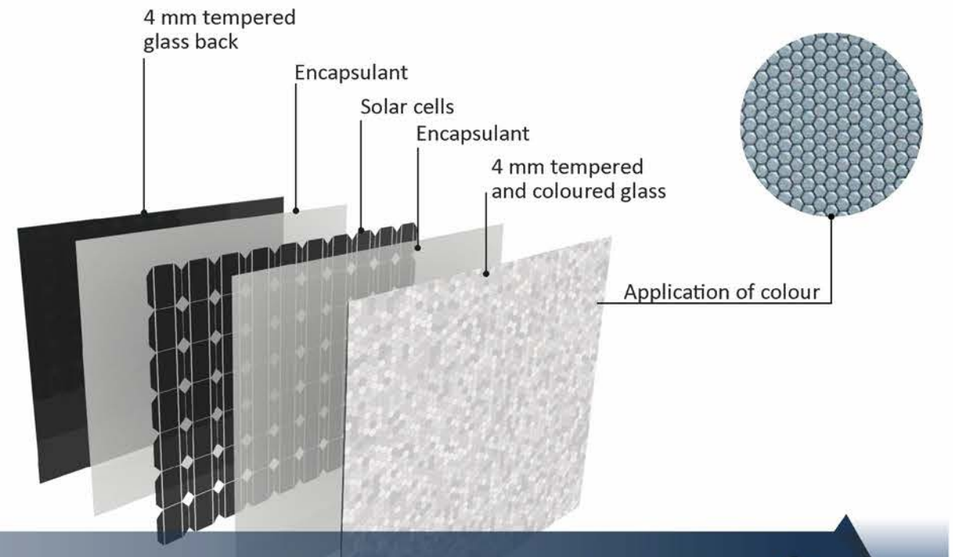
Moreover, this approach ensures buildings meet local energy regulations while incorporating innovative, sustainable, and aesthetically pleasing solutions.

Solarix Basic Colours

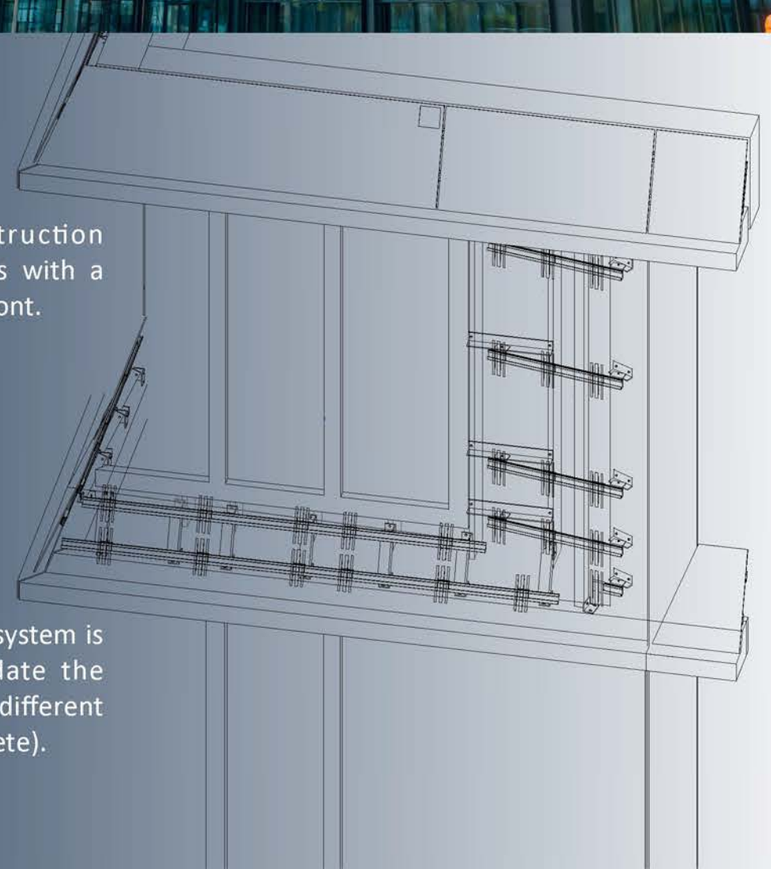
Products and services:

- Solar facade panels
- Facade and panel engineering
- SolarCheck
- SolarScan





NEW CONSTRUCTION

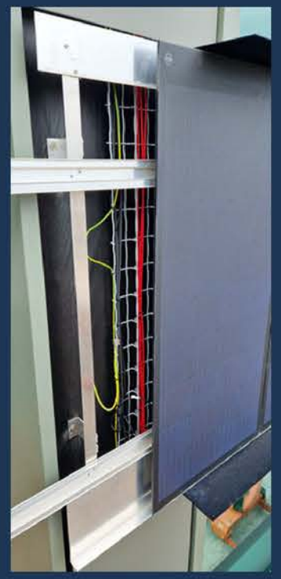


The solar facade construction integrates wood elements with a concrete structure at the front.

An aluminum connection system is employed to accommodate the tolerances between the different materials (wood and concrete).

For the black building, string inverters are utilized for each active facade (East, South, and West). The north facade features dummies that replicate the same composition without solar cells, ensuring consistent aesthetics.

Behind the solar panels, engineered cabling racks provide a safe and fire-resistant solution, ensuring the system's durability and reliability.



NEW CONSTRUCTION

90 MWh annual energy yield per active facade

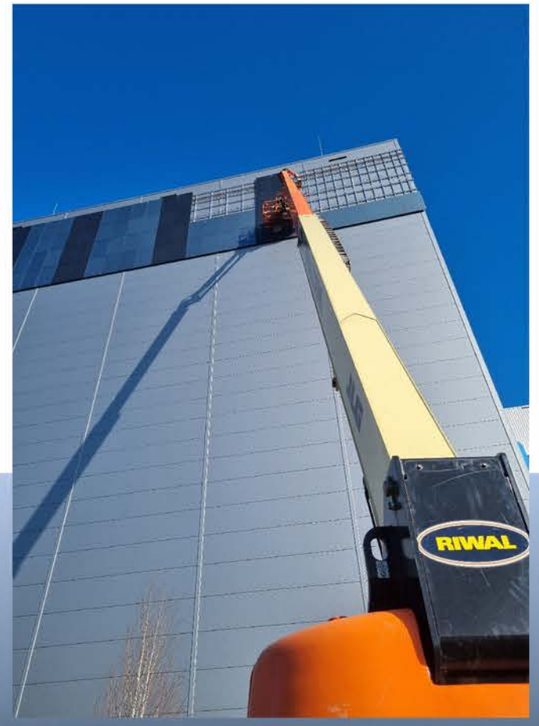
152 kWp system performance

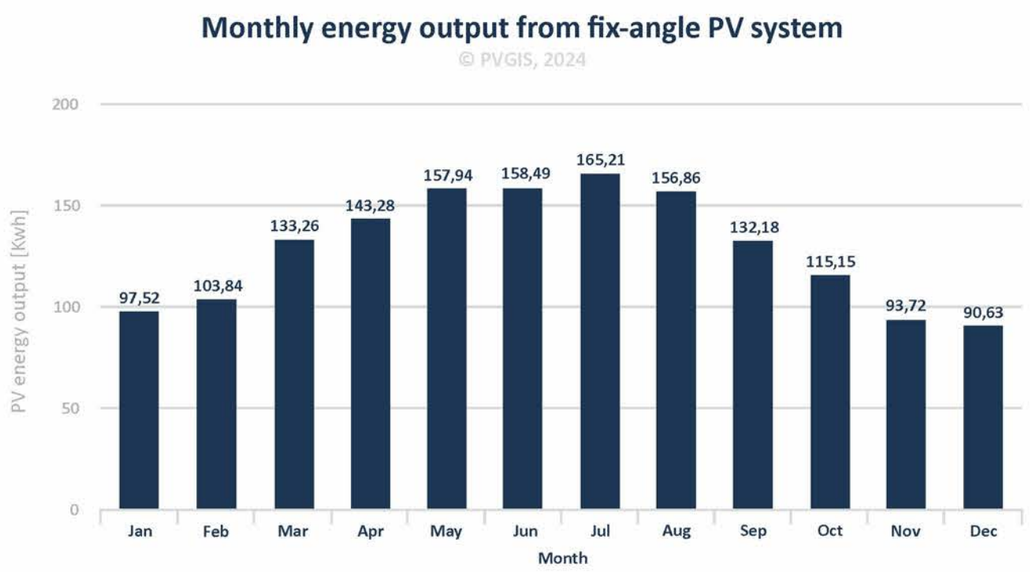
ca. 60 t CO_2 saving per year

Thermal expansion is carefully managed using fixed and sliding fittings, while precise structural calculations ensure the dimensions are optimized to handle weight and wind loads effectively.

For the white building, microinverters are implemented to maximize energy output by adapting effectively to varying angles and shading effects, ensuring optimal performance under diverse conditions.

INDUSTRIAL BUILDING





Enhanced Design:
The sandwich panels are engineered to accommodate additional weight and wind loads. Collaborations with the sandwich panel producer ensure that all static calculations are verified for an optimal connection grid.

Connection Grid:
This grid facilitates the attachment of the aluminum carrier system, which is specifically designed to account for tolerances in the sandwich panel façade, ensuring precise alignment and durability.

INDUSTRIAL BUILDING

The Solar Facade complements the existing solar roof panels and reinforces the company's sustainability strategy. The facade was intentionally designed to emphasize this focus, utilizing two colors—grey and black—for a visually appealing and modern appearance.

Project Management:

- **Electrical Engineering:** Development of string plans, integration of inverters, storage systems, and OSB/VBD components.
- **Mechanical Engineering:** Detailed designs for fastening systems, static calculations.
- **Electrotechnical Installation:** Comprehensive electrical system implementation.
- **Mechanical Assembly:** Precise assembly of mechanical components.
- **Construction Management:** Coordination of all on-site activities to ensure seamless project execution.
- **Quality, Safety, and Environment:** Adherence to the highest standards, ensuring a sustainable and safe process.
- **Scope 12 Certification:** Meeting rigorous for firesafe certification requirements for environmental compliance.

RECONSTRUCTION

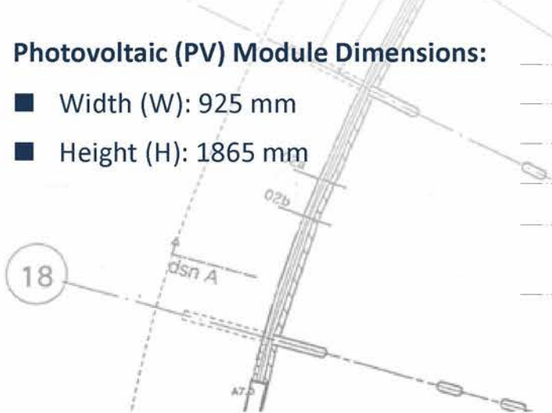
Module Width Calculation

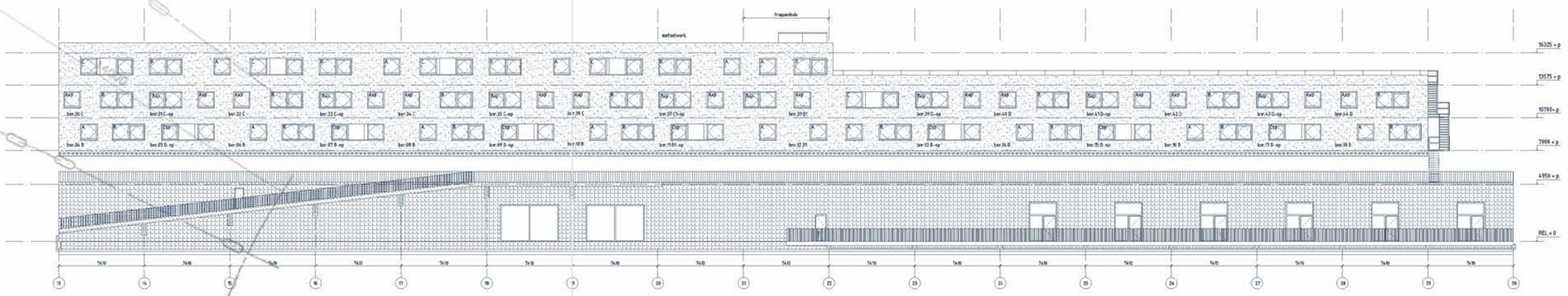
To ensure alignment with the building grid, the following parameters and calculations were considered:

- **Building Grid Details:** The distance between two axes is 7.4 meters, referred to as a grid selection, with an arc angle of 10.588°. This configuration aligns with 34 grid sections around the entire circumference.
- **Module Division:** Each grid section is divided into 8 module widths.
- **Resulting Module Width:** This division results in a nominal module width of 925 mm with minimal gaps. After adjustments, the module depth is finalized at 915 mm.

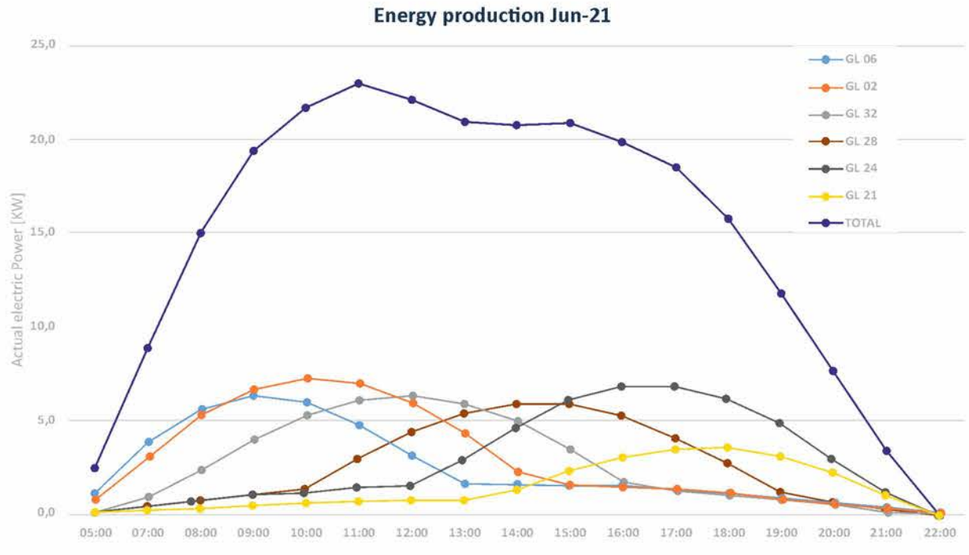
Photovoltaic (PV) Module Dimensions:

- Width (W): 925 mm
- Height (H): 1865 mm





Energy genaration for clear day scenario
(best case and in good approximation &without shading losses)
Day calculated: Jun-21 (longest day in the year)



Grid line	Facade Az.	Ebergy YIeid	Power installed
GL 06	63,5	41,3 kWh	10,46 kWp
GL 02	106,0	49,5 kWh	10,46 kWh
GL 32	148,2	46,0 kWh	10,46 kWh
GL 28	190,6	42,7 kWh	10,46 kWh
GL 24	233,0	49,1 kWh	10,46 kWh
GL 21	264,7	24,3 kWh	5,23 kWh
TOTAL		252,9 kWh	

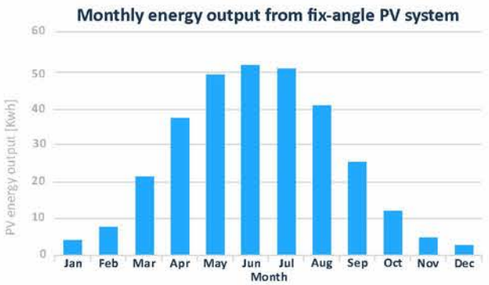
- Grid line 06, 02, 32, 28 and 24 cower 4 sections each = 4x8 PV modules each

- Grid line 21 covers 2 sections = 2x8 PV modules

PV modules at 327 Wp (high efficient)

RECONSTRUCTION

Annual PV Energy Yield - Northeast Elevation (FA=45°)

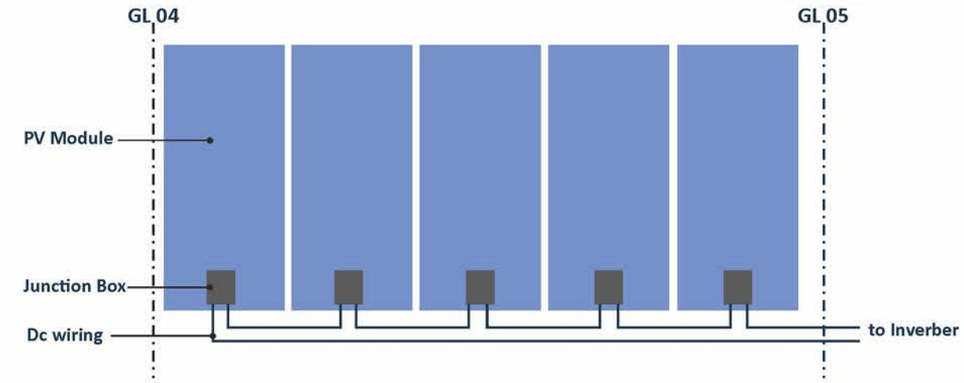


Annual Total **308 kWh/kWp**

421 kWh/m²

Key Observations:

- Energy yield normalized to 1 kWp corresponds to the specific energy yield per year.
- **Shading Considerations:** If the solar height is below the critical angle or the solar azimuth is within the critical range, partial and temporary shading on the PV panels may occur, reducing overall efficiency.



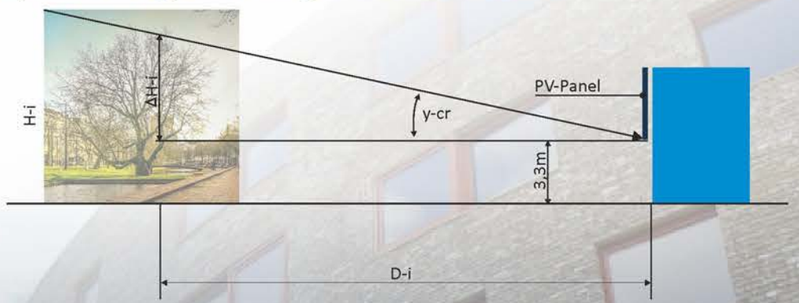
Recommended Inverter Concept

- Multi-String Inverter:

Robust Design: Features a highly reliable setup without the need for external electronic devices.
Durability: Designed to handle diverse environmental conditions effectively.

- Suggested String Layout

Example: 8 PV modules are combined to form a single string.
Each string connects to its individual **MPP-Tracker** (Maximum Power Point Tracker), ensuring optimal energy harvesting from each module.



Object Heights
H-1= 8m
H-2= 17m
H-3= 9m

Distansed to Objects
D-1 = 38m
D-2 = 59m
D-3 = 50m

Resulting Heights ΔH-i
ΔH-i = 4,7m
ΔH-i = 13,7m
ΔH-i = 5,7m

Resulting critical angles y-cr
y-cr-1=7°
y-cr-2=13,7°
y-cr-3=6,5°

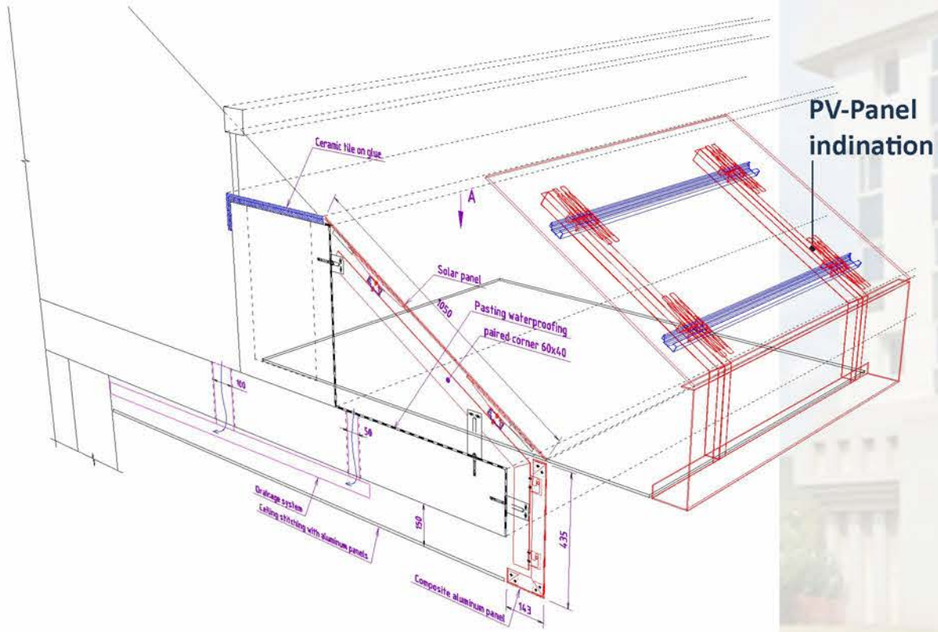
TERRACES

PV Panel Specifications:

- Structure: Glass-glass (4-4-2)
- Dimensions: 1,590 mm x 1,050 mm (width x height)
- Glass Properties:
  Heat-strengthened
  Edges grinded
  Extra clear
  Heat-soak tested
- Color Power: White
- Output Power: 98 Wp/m² (STC) (approximate figure)

	No of floors	Length of single floor [m]	Panel height [m]	Surface Area per Building Part [m²]	PV output Power [Wp]	Energy Yield specific [Kwh/KWp/a]	Energy Yield IDEAL [Kwh/a]
Building Part A	7	43,4	1,05	319,0	31.261	0,93	43.204
Building Part B	7	43,4	1,05	319,0	31.261	0,96	43.647
Building Part C	7	43,4	1,05	319,0	31.261	0,98	43.145
Total					93.783		129.997

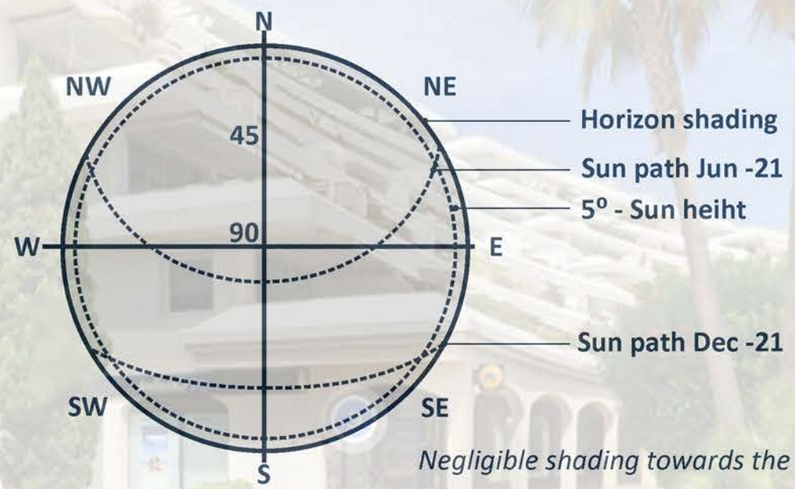
For this project in Spain, the client requested a Solar Facade System engineered specifically for balcony integration. The existing ceramic tile cladding can be replaced with solar panels in matching colors. The system leverages solar balconies to power air conditioning, a significant energy demand in the region.



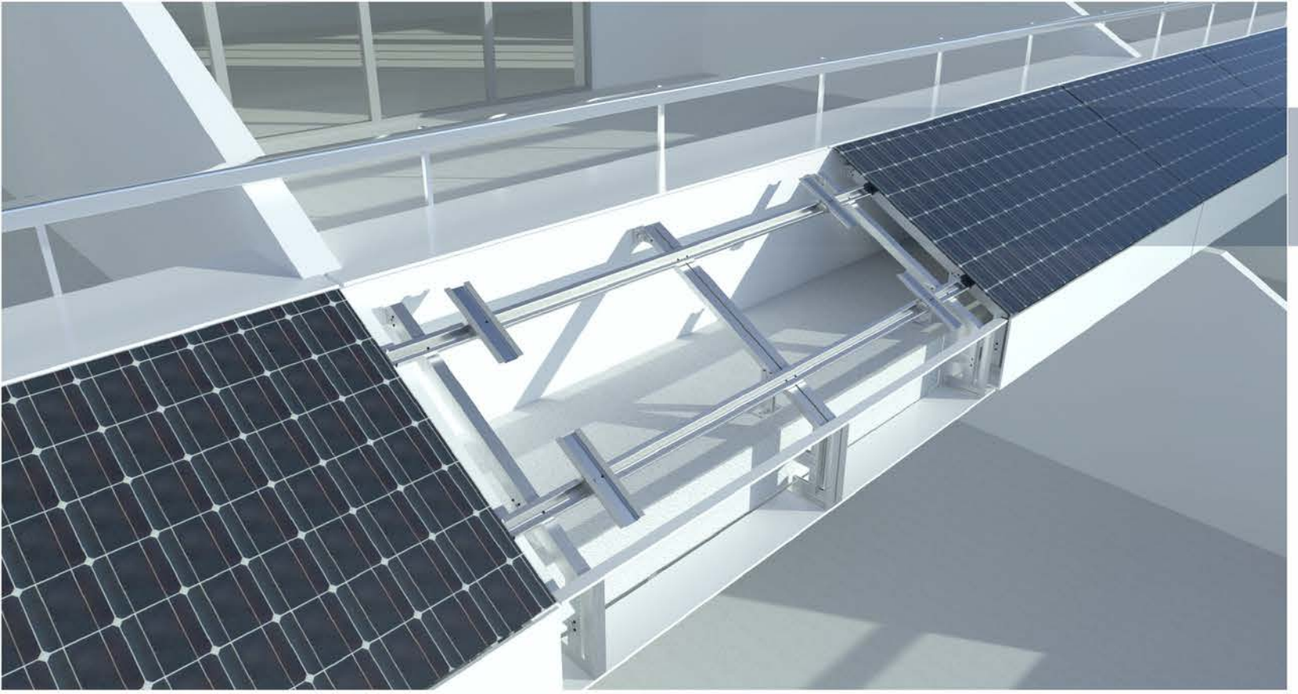
Potential Shading Impact

Shadowing Factors:

- The building's west-facing orientation is the primary determinant of shading impact.
- Shadowing depends on the solar azimuth and solar height.
- Mainly the lower floors will be affected.



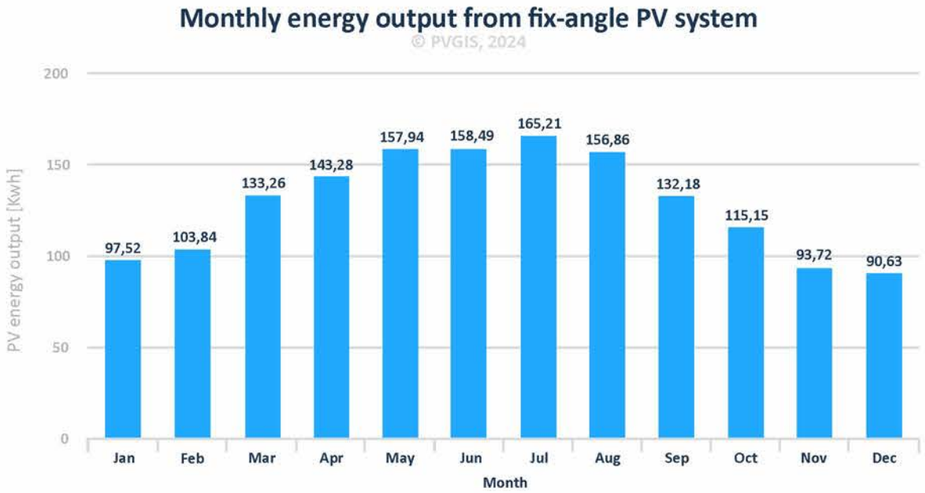
Negligible shading towards the South and West.



TERRACES

This project also involves renovating the facade to enhance insulation and update the exterior with new aluminum cladding. Additionally, the drainage system is seamlessly integrated into the solar balcony carrier construction for a streamlined design.

Monthly energy output from fix-angle PV system

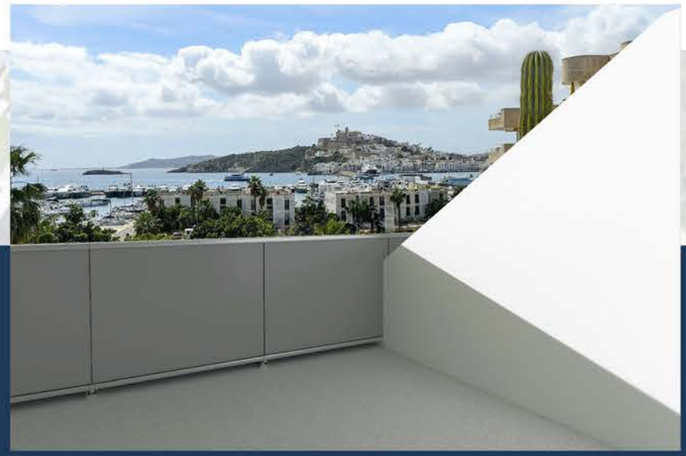


Annual Total **1.548 kWh/kWp**

The solar panels are designed to be nearly white, maximizing light reflection and ensuring the aesthetic aligns with the building's overall appearance. To optimize power output despite the lighter color, the coloring technique was carefully refined to balance reflection and energy efficiency.

Monthly energy output from fix-angle PV system

2.022 kWh/m²



PRIVATE HOUSEBUILDING

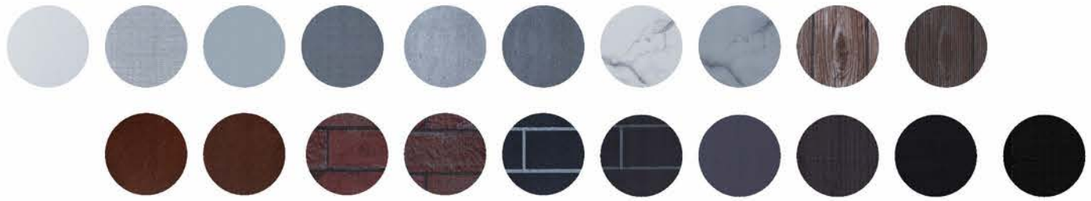
You can choose any color or design for a high-end finish of your cottage.
In combination with a battery you can enjoy a comfortable living area without using fossil fuel with energy from the sun.

Innovative Solutions for Sustainable Living

Are you interested in a modern holiday cottage or extra licing space?
We can provide this with our modern aluminium facadesystems including optional solar panels for the façade and vacuumglass.

Solar facade for your own energy harvesting. Vacuumglass for optional isolation and comfortable quiet living space.

Color scheme



Solar Facades

Energy Efficiency Meets Aesthetic Appeal

Our solar facades are designed to maximize energy savings while offering optional battery storage for greater independence.

Key Features:

- **Scratch Resistant:**
  Hardness rating of 8 on the Mohs scale ensures durability.
- **Wind Resistance:**
  Withstands gusts up to 250 km/h, ideal for all climates.
- **Temperature Resistance:**
  Operates flawlessly in extreme conditions, from -50°C to +90°C
- **Fire Safety:**
  No elements fall off during fire (tested to panel 225 WT).
  Burning droplets classified as d0 (EN 13501).
  No spread of fire (certified PM-B 02867).
  No smoke emissions (classified as s1).
- **Hail Resistance:**
  Endures 75 mm hailstones at 140 km/h, protecting your investment.

These facades are perfect for holiday homes, commercial properties, and eco-friendly developments.

SCRATCH RESISTANT
hardness 8 on the Mohs scale

WIND RESISTANCE
up to 250 km/h

NO BURNING DROPLETS
according to EN 13501 kat. d0

NO SMOKE EMISSIONS
according to EN 13501 cat. s1

TEMPERATURE RESISTANCE
from -50 to +90

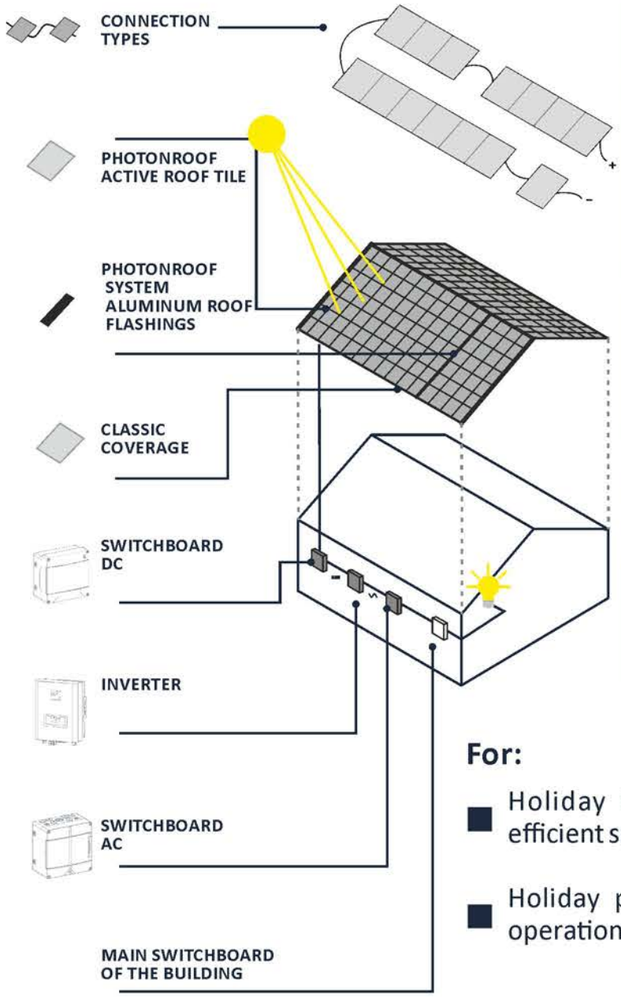
NO ELEMENTS FELL OFF DURING FIRE
examination par. 225 WT

NO SPREAD OF FIRE
NRO
wg PN-B 02867 +90

RESISTANCE TO HAIL
75 mm at a speed of 140 km/h

Complete Solutions for Every Need

Choose from Double-, Triple-, or Vacuum Glass options, seamlessly integrated into aluminum facades for a sleek, modern look.



For:

- Holiday house owners seeking energy-efficient solutions.
- Holiday park investors looking to reduce operational costs and enhance sustainability.

All components are available as a complete system, ensuring hassle-free installation and operation.

WE OFFER A WIDE RANGE OF SHAPES AND OPTIONS FOR WINDOWS AND DOORS, CRAFTED FROM VARIOUS TYPES OF PROFILE FACADE SYSTEMS TO MEET DIVERSE ARCHITECTURAL AND DESIGN NEEDS

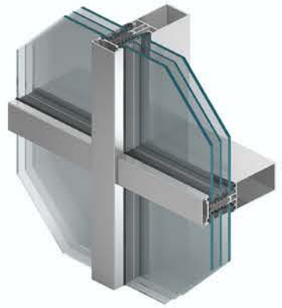
ALUPROF
ALUMINIUM SYSTEMS

- **MB SR 50N**
  FACADE SYSTEM
- **MB 79N**
  WINDOWS & DOORS WITH THERMAL INSULATION
- **MB 86**
  WINDOWS & DOORS WITH THERMAL INSULATION
- **MB 82HS**
  LIFTING AND SLIDING PATIO DOORS
- **MB 77HS**
  LIFTING AND SLIDING BALCONY DOORS
- **MB 59 HS**
  LIFTING AND SLIDING DOORS
- **MB 45**
  WINDOWS & DOORS SYSTEM WITHOUT A THERMAL BARRIER
- **MB 104 PASSIVE**
  WINDOWS & DOORS SYSTEM THAT PROVIDES THE HIGHEST THERMAL INSULATION PERFORMANCE
- **VENETIAN BLINDS**
- **PERGOLAS**

NCTL [FL] intertek Total Quality. Assured. EUROPEAN QUALITY

PCA BADANIA AB 1241 ilac-MRA

ALUPROF
ALUMINIUM SYSTEMS



MB-SR50N+ MB-SR50N

FACADE SYSTEM

The **MB-SR50N+** facade system offers a flexible and versatile solution for creating aesthetic and high-performance curtain walls. It provides the following key features:

- **Angle Joints:** Allow for free shaping of aluminum structures.
- **Sharp-edged Posts and Beams:** Facilitate the construction of curtain wall supporting structures with a uniform truss appearance.
- **Aesthetic Variety:** A range of curtain wall variations and lining profiles in different shapes, offering diverse design possibilities.
- **Opening Elements:** A large selection of curtain wall opening options, including windows, doors, skylight windows, and tilt-and-turn or parallel opening MB-SR50N OW systems.
- **Glazing Range:** A wide range of glazing options, supported by insulators and accessories to achieve high thermal insulation performance.
- **Curved Structures:** The ability to bend profiles, allowing for the creation of curved structures.

TECHNICAL CHARACTERISTICS

TECHNICAL SPECIFICATION	MB-SR50N MB-SR50N HI+	MB-SR50N HI	MB-SR50N EFEKT	MB-SR50N IW	IW MB-SR50N OW	MB-RW
Mullions depth	50 – 325 mm			85 – 125 mm	—	—
Transom depth	5– 209.5 mm			49.5 – 129.5 mm	—	—
Inertia mullions (range Ix)	26.04 – 4123.45 cm^4			70.43 – 245.70 cm^4	—	—
Inertia transoms (range Iz)	0.79 – 629.54 cm^4			23.76 – 205.98 cm^4	—	—
Glazing thickness	24 – 56 mm	24 – 52 mm	24 – 56 mm	24 – 56 mm	28 – 41 mm	32 – 51 mm

PERFORMANCE	MB-SR50N MB-SR50N HI+	MB-SR50N HI	MB-SR50N EFEKT	MB-SR50N IW	IW MB-SR50N OW	MB-RW
Air Permeability	AE 1200, EN 12152			class 4, EN 12152		
Watertightness	RE 1200, EN 12154	RE 1500, EN 12154	RE 1200, EN 12154	E 1500, EN 12208	E 1650, EN 12208	E 1800, EN 12208
Windload resistance	2400 Pa, EN 13116			E 2400, EN 12210	class C5, EN 12210	2.4 kN/m2, EN 12210
Thermal insulation	Uf from 0.7 W/(m2K)	Uf from 1.0 W/(m2K)	Uf from 1.1 W/(m2K)	Uf from 1.6 W/(m2K)	—	Uf from 1.8 W/(m2K)
Impact resistance	I5/E5, EN 14019				—	32 – 51 mm

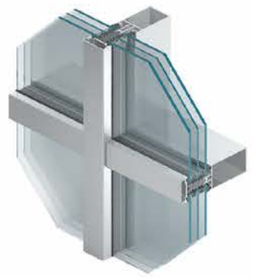
The **MB-SR50N Mullion-Transom System** is designed to fabricate lightweight curtain walling, roofs, skylights, and other spatial structures. In line with contemporary architectural trends, this system allows for the alignment of mullion and transom profiles on the inner side of the facade, offering a variety of aesthetic options and the flexibility to create different visual appearances.

Modifications and system options

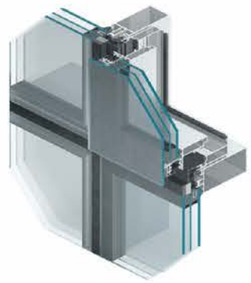
MB-SR50N/ MB-SR50N HI

MB-SR50N IW

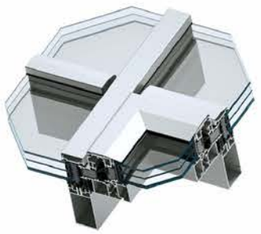
MB-SR50N EFEKT



MB-SR50N HI+



MB-SR50N OW



MB-RW

MB-79N

WINDOW & DOOR SYSTEM

ALUPROF
ALUMINIUM SYSTEMS

The **MB-79N** is a state-of-the-art, cost-effective addition to the Aluprof window and door systems. Designed to exceed standard thermal insulation requirements, it offers a versatile range of applications. The MB-79N series can be used to fabricate various window types, including fixed, side-hung, hopper, tilt-and-turn, and hopper-and-slide windows, as well as single and double exterior doors. Additionally, it can be used to create storefront solutions, complete with integrated doors.

WINDOWS

MB-79N ST

MB-79N SI

MB-79N US SI

MB-79N CASEMENT SI

MB-79N E

MB-79N ST

MB-79N SI

MB-79N SI, SI+

TECHNICAL CHARACTERISTICS

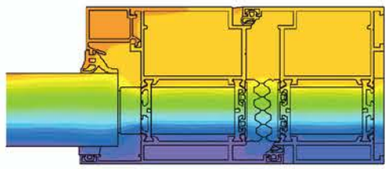
TECHNICAL SPECIFICATION	MB-79N WINDOWS	MB-79N DOORS	MB-79N CASEMENT
Frame depth	70 mm	70 mm	70 mm
Casement depth	79 mm	70 mm	79 mm
Glazing thickness	frame: 1.5 – 54 mm, vent: 10.5 – 63 mm	vent: 1.5 – 54 mm	frame: 1.5 – 54 mm, vent: 10.5 – 63 mm
Max. casement size (H×L)	H to 2700 mm, L to 1350 mm / H to 2150 mm, L to 1700 mm	H to 2800 mm, L to 1400 mm	H to 2700 mm, L to 1400 mm / H to 2500 mm, L to 2400mm

PERFORMANCE	MB-79N WINDOWS	MB-79N DOORS	MB-79N CASEMENT
Air permeability	class 4, EN 12207	class 4, EN 12207	class 4, EN 12207
Water tightness	class E 1950, EN 12208	class E 900, EN 12208	class E 1800, EN 12208
Thermal insulation	Uw from 0.64 W/(m2K)* Uw from 0.72 W/(m2K)**	UD from 0.90 W/(m2K)***	Uw from 0.74 W/(m2K)****
Windload resistance	class C5, EN 12210	class C5/B5, EN 12210	class C5/B5, EN 12210

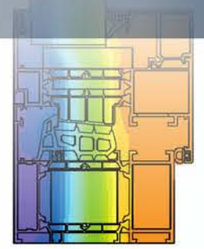
MB-86

WINDOW & DOOR SYSTEM

The **MB-86** window and door series has been designed to deliver exceptional insulation properties. Available in three variations—ST, SI, and AERO—it is the first aluminum system to incorporate silica aerogel. This advanced material enhances thermal performance, making it ideal for both residential and commercial applications.



Distribution of isotherms in MB-86 Aero



Distribution of isotherms in MB-86 Aero

ALUPROF
ALUMINIUM SYSTEMS

WINDOWS MB-86

MB-86 SI

MB-86 Aero

MB-86US Aero

window MB-86 Casement

DOORS MB-86

MB-86 ST

MB-86 SI

MB-86 SI+

MB-86US Aero

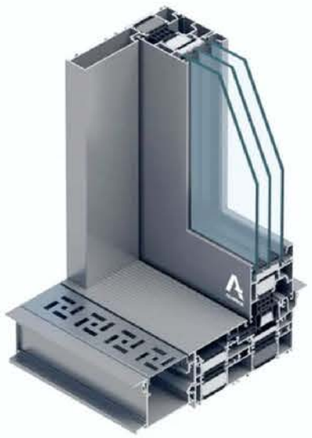
TECHNICAL CHARACTERISTICS

TECHNICAL SPECIFICATION	MB-86 WINDOWS	MB-86 DOORS	MB-86US	MB-86 Casement
Frame depth	77 mm			
Casement depth	86 mm	77 mm	80,8 mm	77 mm
Glazing thickness	frame: 13.5 – 61.5 mm, vent: 21 – 70.5 mm	13.5 – 61.5 mm	frame: 7 – 52 mm, vent: 15 – 60 mm	frame: 13 – 61 mm, vent: 22 – 70 mm
Max. casement size (H×L)	H to 2800 mm, L to 1700 mm	H to 3000 mm, L to 1400 mm	H to 2500 mm, L to 1600 mm	window: H to 2500 mm L to 2400 mm / door: H to 2800 mm L to 1400 mm

PERFORMANCE	MB-86 WINDOWS	MB-86 DOORS	MB-86US	MB-86 Casement
Air permeability	class 4, EN 12207	class 4, EN 12207	class 4, EN 12207	class 4, EN 12207
Water tightness	class E 1500, EN 12208	class E 1350 Pa, EN 12208	class E 1350, EN 12208	E1950 Pa, EN 12208
Thermal insulation	MB-86 ST Uf from 1.39 W/(m²K) MB-86 SI Uf from 0.92 W/(m²K) MB-86 AERO Uf from 0.57 W/(m²K) MB-86 AERO Uw from 0.72 W/(m²K)*	MB-86 ST Uf from 2.16 W/(m²K) MB-86 SI Uf from 1.76 W/(m²K) MB-86 SI+ Uf from 1.49 W/(m²K) MB-86 AERO Uf from 1.22 W/(m²K)	MB-86US ST Uf from 1.03 W/(m²K) MB-86US SI Uf from 1.01 W/(m²K) Uf MB-86US AERO from 0.86 W/(m²K)	—
Windload resistance	class C5, EN 12210	class C1/B2, EN 12210	class C5, EN 12210	class C5, EN 12210
Impact resistance	—	class 3 / class 3	—	class 3 / class 3

MB-82HS

SLIDE & LIFT AND SLIDE SYSTEMS



The **MB-82HS** lift-and-slide patio door with thermal break is an ideal choice for contemporary interiors, offering a perfect blend of functionality, aesthetics, and innovation. Its design allows for generous dimensions and offers the convenience of both manual and automatic operation.

With its cutting-edge technological solutions and versatile design, the MB-82HS lift-and-slide patio door is a premier choice for creating elegant, functional, and sustainable living spaces.

ALUPROF
ALUMINIUM SYSTEMS

PERFORMANCE

Air permeability	class 4, EN 12207
Watertightness	up to class 9A (600Pa), EN 12208
Wind load resistance	up to class C5 (2000Pa), EN 12210
Thermal insulation	Uw from 0.85 W/(m2K)*

KEY FEATURES AND ADVANTAGES:

- **Technological Excellence:**
  Includes a 'zero' threshold embedded in the floor, a linear drainage system, slim mullions, and no masking strips on vertical frames.
- **Profile Depth:**
  82 mm for the leaf, 186 mm for the frame.
- **Thermal Variants:**
  Available in three options—ST, SI, and SI+.
- **Glazing Options:**
  18–66 mm for the leaf and 36–65 mm for fixed lights, accommodating large, heavy panes of glass.
- **Impressive Dimensions:**
  Maximum leaf dimensions of 3.24 m x 3.3 m and a maximum leaf weight of 600 kg.
- **Enhanced Mullion Solutions:**
  Offers both slim mullion aesthetics and the SI+ option for superior thermal performance.
- **Compatibility:**
  Custom-designed profiles ensure seamless integration with other ALUPROF systems, including MB-79N, MB-86N, and MB-104 Passive.
- **Ease of Installation:**
  Features a simplified drainage model, straight-cut and bolted frames, and external glazing for fixed lights, ensuring efficient prefabrication.
- **Comprehensive Installation Solutions:**
  Includes an EPS structural base, mounting brackets, compensating profiles, and linear drainage systems for flawless execution.

MB-77HS

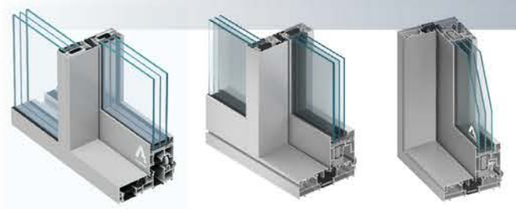
SLIDE & LIFT AND SLIDE SYSTEMS

The **MB-77HS** Lift & Slide door system is designed to accommodate impressive large openings. It supports double and even triple glass unit compositions, offering excellent thermal and acoustic performance.

Available in two variants (regarding the level of thermal performance)—standard "ST" and highly insulated "HI"—to suit different energy efficiency needs.

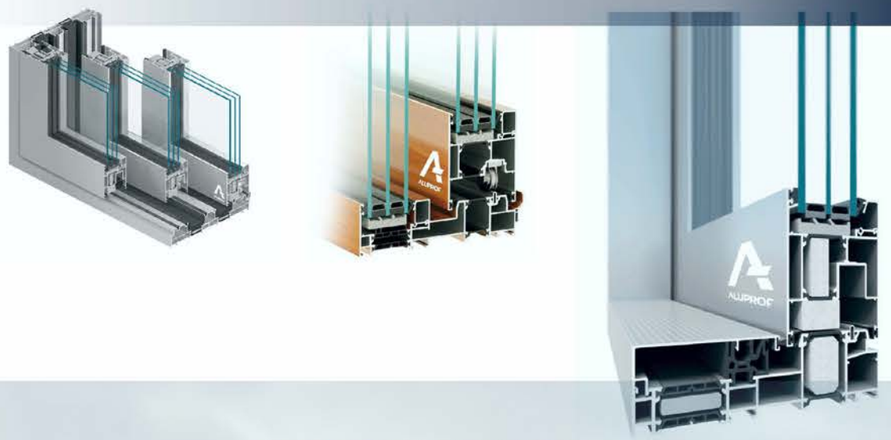
ALUPROF
ALUMINIUM SYSTEMS

AVAILABLE CONFIGURATIONS



OPENING CORNER JOINT

3-RAIL FRAME



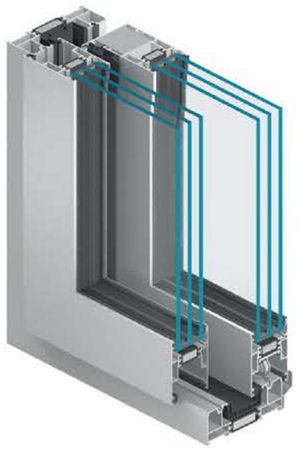
PERFORMANCE

Air permeability	class 4, EN 12207
Watertightness	class 9A, EN 12208
Wind load resistance	up to class C4, EN 12210
Thermal insulation	Uf from 1.4 W/(m²K), UW from 0.84 W/(m²K)*

Thanks to its advanced system properties and rigorous performance tested through a stringent regime, the MB-77HS Lift & Slide system is perfectly suited for a wide range of domestic and retail applications. It provides a comfortable, safe, and cost-effective solution that requires minimal maintenance, ensuring long-term durability and satisfaction for the end user.

MB-59HS

SLIDE & LIFT AND SLIDE SYSTEMS



ALUPROF
ALUMINIUM SYSTEMS

The **MB-59HS** Lift & Slide system offers exceptional versatility for door applications, combining optimized construction and profile dimensions. With its superior thermal and sound insulation properties, along with excellent water and airtightness, the MB-59HS system meets all energy conservation and environmental protection requirements.

This lift & slide door is the ideal solution for seamlessly integrating indoor spaces with external areas like balconies, terraces, or gardens. Its advanced features make it suitable for a variety of buildings, including individual homes, hotels, and apartments.

TECHNICAL CHARACTERISTICS

TECHNICAL SPECIFICATION	MB-59HS ST / MB-59HS HI
Frame depth	120 mm (2-rail profile), 199 mm (3-rail profile)
Casement depth	59 mm
Glazing thickness	to 42 mm
PROFILE WIDTH, AS SEEN FROM THE OUTSIDE	
Rama	44 mm
Sash	83.5 – 94.5 mm
PERFORMANCE	MB-59HS ST / MB-59HS HI
Air permeability	class 3, EN 12207
Water tightness	class 7A, EN 12208
Thermal insulation	Uf from 1,8 W/(m²K)
Windload resistance	to class C2, EN 12210

MB-45

WINDOW & DOOR SYSTEM

The system comes with a full suite of door options; sliding, swing anti finger trap, and open in window configurations; Slide & Tilt, side hung, bottom hung and tilt&turn.

ALUPROF
ALUMINIUM SYSTEMS

MB-45 is a competitively priced non thermal window and door system. This system intended for designing elements of architectural exterior and interior enclosures that do not require thermal insulation, e.g. various types of partition walls, windows, manual and automatic sliding doors, swing doors, vestibules, display windows, ticket box offices, showcases and spatial structures. With its broad selection of profiles, MB 45 offers a variety of possible uses and combines cost efficiency with minimum basic depths.

TECHNICAL CHARACTERISTICS

TECHNICAL SPECIFICATION	MB-45	MB-45S	MB-45D
Frame depth (door / window)	45 mm		
Casement depth (door / window)	45mm /54mm	45 mm	
Glazing rang (fixed window and door / opening window)	1.5 – 32 mm / 1.5 – 34 mm	1.5/32 mm	
MIN VISIBLE WIDTH T PROFILE			
Frame depth (door / window)	66.5mm/27.5mm		
Casement depth (door / window)	66mm/27.5mm		
SIZE LIMITATIONS			
Max. size of window (H×L)	H to 2400 mm (1850 mm) L to 1250 mm (1600 mm)	—	—
Max. size of door (H×L)	H to 2400 mm (2200 mm) W to 1250 mm (1400 mm))		
Max. weight (door / window)	120 kg / 130 kg	130 kg	120 kg
TYPES OF CONSTRUCTION			
Solutions	Tilt window, turn window, tilt&turn window, Doors open out and open in	Mortise doors, Partition walls with doors	Doors open out and open in

MB-104 PASSIVE

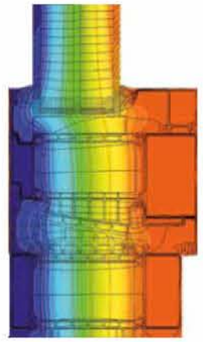
WINDOW & DOOR SYSTEM

The **MB-104** Passive is a thermal break-equipped window & door system that provides the highest thermal insulation performance, and meets all the requirements for passive building components.The system is used to fabricate exterior architectural development elements, e.g. various types of windows, doors, vestibules, and spatial structures, which are characterized, in addition to the excellent thermal insulation, by a very good sound insulation, water- and air tightness and high structural strength.

Thanks to its excellent thermal performances, the thermally broken window system MB-104 Passive meets all the requirements for the components used in passive buildings. This was confirmed by certificates granted by the Passive House Institute PHI Darmstadt.

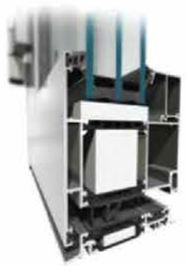
MB-104 Passive Aero

MB-104 Passive SI



Isothermal lines in MB-104 Passive Aero window

MB-104 Passive SI



MB-104 Passive Aero

MB-104 Passive SI, Rc3

TECHNICAL CHARACTERISTICS

TECHNICAL SPECIFICATION	MB-104 PASSIVE WINDOWS	MB-104 PASSIVE DOORS
Frame depth	95 mm	95 mm
Casement depth	104 mm	95 mm
Glazing thickness	frame: 27 – 72 mm, vent: 34.5 – 81 mm	27 – 72 mm
Max. casement size (H×L)	H to 2900 mm, L to 1700 mm	H to 3000 mm, L to 1400 mm
PERFORMANCE	**MB-104 PASSIVE WINDOWS**	**MB-104 PASSIVE DOORS**
Air permeability	class 4, EN 12207	class 4, EN 12207
Water tightness	to class AE 1800, EN 12208	class E1200 Pa, EN 12208
Thermal insulation	Uw from 0,59 W/(m²K)* Uw from 0,62 W/(m²K)**	UD from 0,66 W/(m²K)***
Windload resistance	class C5/B5, EN 12210	class C4/B5, EN 12210
Burglary resistance	class RC1 to RC3, EN 1627	class RC1 to RC3, EN 1627

SYSTEMS

SkyFlow SZF/P- venetian blinds in under plaster variant

SkyFlow SZF/BX - venetian blinds in under plaster variant

SkyFlow SZF/A - venetian blinds in ront-mounted variant

SkyFlow SZF/S - venetian blinds in self-supporting variant

LATHS

Slats Z90

Slats C80

VENETIAN BLINDS

Fitting facades with external venetian blinds is a highly practical way of blocking out the sun and effectively protecting interiors from overheating while providing comfortable optical conditions.

Regulatable slats are typical feature of these products, giving users the freedom to select the angle and degree of shading which works best for them. At the same time, the aesthetic profile of the slats and the aluminium structural elements in the form of the headbox and guides, give façades a contemporary, original look.

AVAILABLE COLOURS

DRIVES

High quality motors

SkyFlow venetian blinds are fully mechanised, due to the use of modern drives from world renowned manufacturers such as **ELERO** and **SOMFY**. Drives offered by Aluprof are characterised by high reliability and working culture.

Reliable controls

Depending on the user's needs, **SkyFlow** venetian blinds can be controlled using wall-mounted or portable transmitters with control functions for one or more devices, remote controls with timer or control panels managing the entire home automation system like YubiiHome by Elero or **TAHOMA** by **Somfy.**

PERGOLAS

The pergola is a very versatile solution for covering large areas. It is certainly a stylish addition, perfectly matching the trends of modern construction.

SYSTEMS

MB-OpenSky 120 - pergola system

MB-OpenSky 140 - pergola system

The product will prove useful not only in the case of single-family houses as part of terrace or garden development, but also in commercial buildings, being a modern and practical element of roofing summer gardens in cafés or restaurants. Thanks to the possibility of using side screens or sliding glass panels, the pergola may be used regardless of the prevailing weather conditions.

AVAILABLE COLOURS

DV GROUP'S EDUCATIONAL MISSION:

While developing Solar Facade Systems, we realized that the future is already here. Modern facades should not only be functional and aesthetically pleasing but also capable of producing green energy.

Solar Facades not only add a stylish touch to buildings but also help lower energy expenses by producing their own electricity.

Through the development process, it became clear that the issue is global and we need to collaborate with partners, investors, and architects. We needed to listen to their wishes and solutions, teach them about the latest innovations and have a productive exchange of opinions on all the issues.

To achieve this, we organized a series of three special events, bringing together a professional community of the industry's best speakers at our office in the Netherlands to share and combine knowledge.

The first Event focused on Solar Facade Systems and their possibilities for both existing and future buildings. Our primary audience was architects. We presented our brand new technical solutions to the professionals who will be working with them for years to come.

ENGINEERING

ALUMINUM

VACUUM GLASS

BIPV

SUSTAINABLE

Our speakers covered critical topics like fire safety, including compliance with EU fire regulations, ensuring that our facades are not just visually beautiful, but also safe and reliable.

Highlights also included an introduction to colored solar panels, developed by Solarix, which offer architects and developers endless creative possibilities.

The second event broadened its scope for a wider audience, welcoming not only architects, but also investors, real estate companies, and general contractors. The main goal was to show the diverse possibilities of modern facades: from using vacuum solutions to retain heat within buildings, to generating green electricity with stylish BIPV models.

By the time of the third event, we recognized that we were no longer just participating in the industry—we were transforming it.

With this realization, the third event became a cornerstone for building a new community within the construction industry, where architects, developers, and innovators come together to shape the future of sustainable design.

It also became clear that our mission extended—we had to share knowledge and inspire change.

A special highlight was a speaker from the Dutch municipality, who shared insights into how climate and environmental regulations have evolved over the past 50 years.

The discussion focused on new laws mandating building owners to renovate their facades.

This regulatory shift underscores the necessity of upgrading facades, and with our expertise and collaboration with partners, we are ready to lead the way in ensuring the process is both sustainable and aesthetically innovative.

USA 2024

PROJECTS (completed)

USA
Canada
England
Belgium
The Netherlands
Germany
Austria
Switzerland
France
Czech
Poland
UAE
Saudi Arabia

NY, USA

2020

UAE

2024

2020

Lelystad, the Netherlands

PROJECTS (in progress)

USA
Canada
England
Belgium
The Netherlands
Germany
Austria
Italy
Poland
Zambia
South Africa
UAE
Saudi Arabia

2025

The Netherlands

UAE

Valkenburg, the Netherlands

2024

2022

Leiden, the Netherlands