

Knowledge. Innovation. Sustainability.

D# GLASS

DA GLASS

Changing standard glass into powerful material

nano barren

NANO-BARREN™ Antiseptic glass



BIPV technology photovoltaic panels



Non-Glare glass



Diffused glass



Diamond glass



Anti-reflective glass

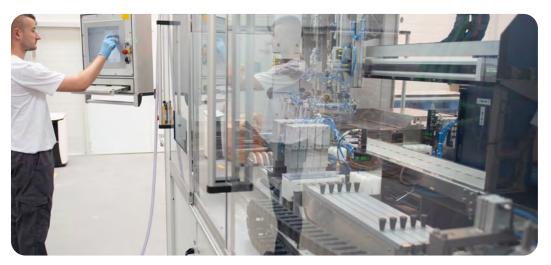


Quality means a lot more than making a good product

DAGLASS is a globally operating company that has been successfully processing the flat glass. Using its unique technological know-how, which has been constantly evolving for the needs of ever-changing market needs, DAGLASS manufactures and processes the most technologically advanced glass.

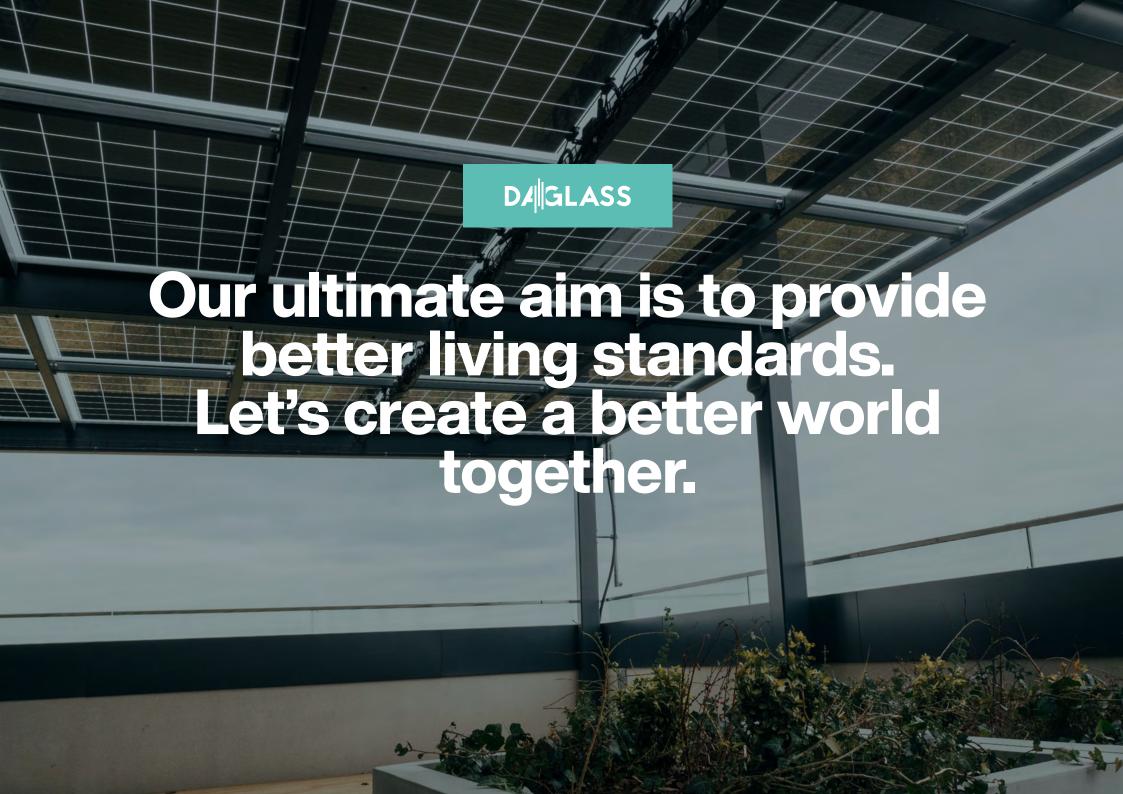




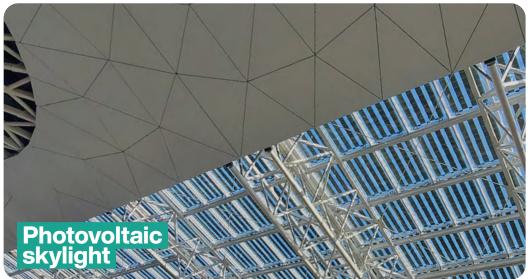








Selected projects









Lublin (PL) Bus station

Roof with heated glass and LED lighting









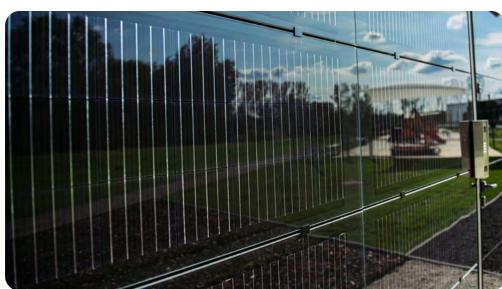
Kraków (PL) Pharmaceutical company

Façade and canopy









Bobrowniki (PL) Kindergarten

Façade



Łódź (PL) Block of flats

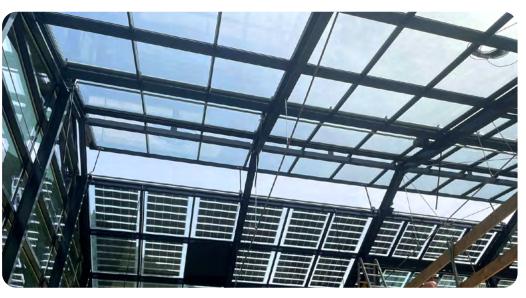
Balustrade



Rzeszów (PL) MEDICUS clinic

Façade

Output kW: 20



Italy (ITA) Office building

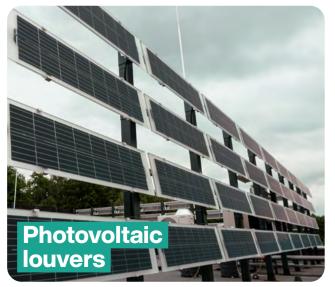
Roof

Output kW: 13



Ziębice (PL) Sports and entertainment hall

Façade and roof





Laski (PL) A football pitch with its facilities

Photovoltaic louvers

Output kW: 10



Biłgoraj (PL) Swimming pool complex

Façade

Output kW: 10



Wołomin (PL) Kindergarten

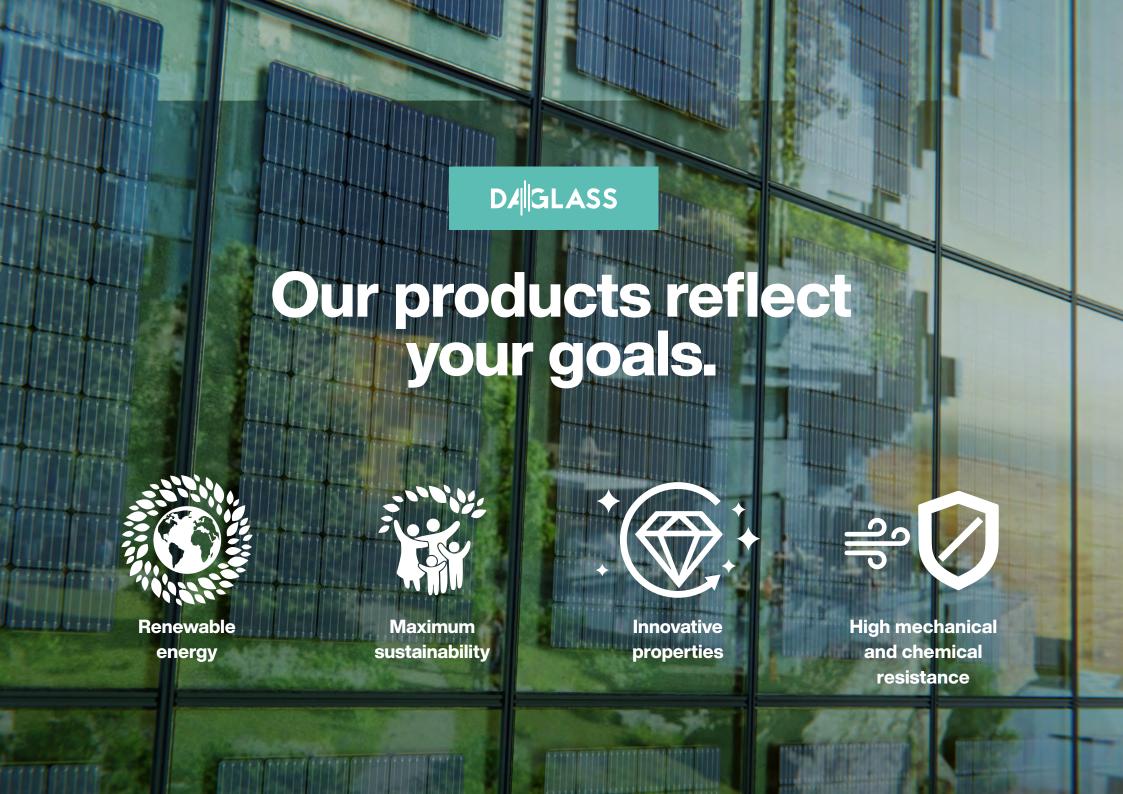
Roof

Output kW: 9



Rzeszów (PL) Subcarpathian Innovation Center

Façade



DAGLASS solar module with unique properties



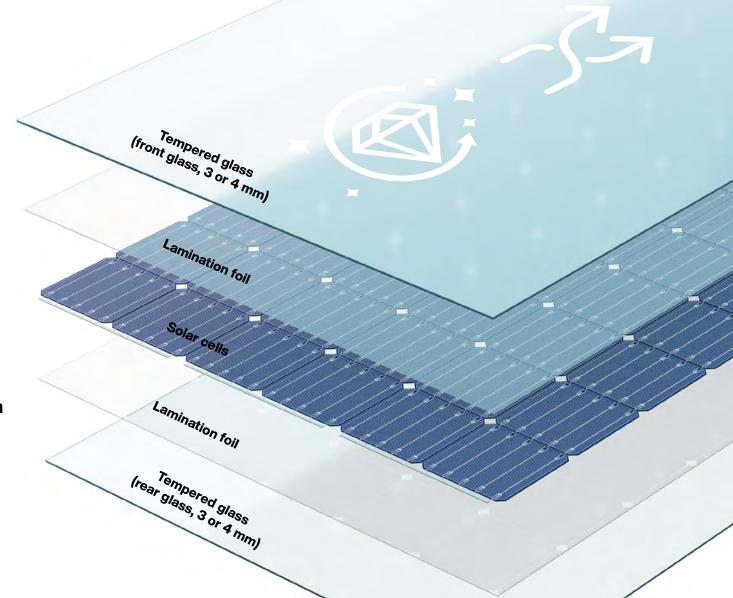
Two panes of tempered glass with



Anti-soiling properties



Diffused glass with enhanced light absorption



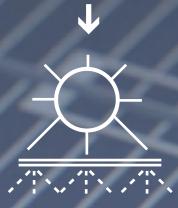




文 Diffused glass



Light dispersion in a controlled manner without loss of light transmission



Decreased overheating of panel



Self-cleaning properties

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DAGLASS solar module Feature

Owing to the innovative technology, the glass processed by us gains completely new characteristics, including self-cleaning properties, higher light transmittance and resistance to mechanical damage and weather conditions.







Anti-Soling



Increase light transmittace

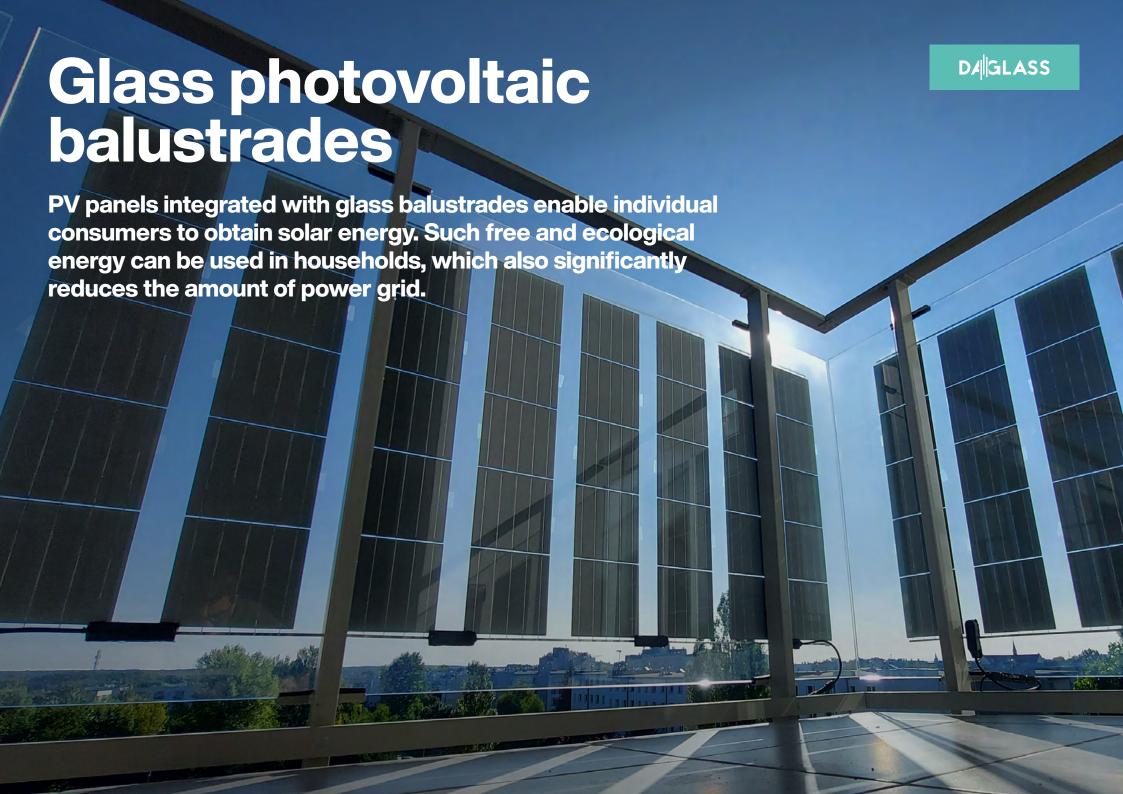


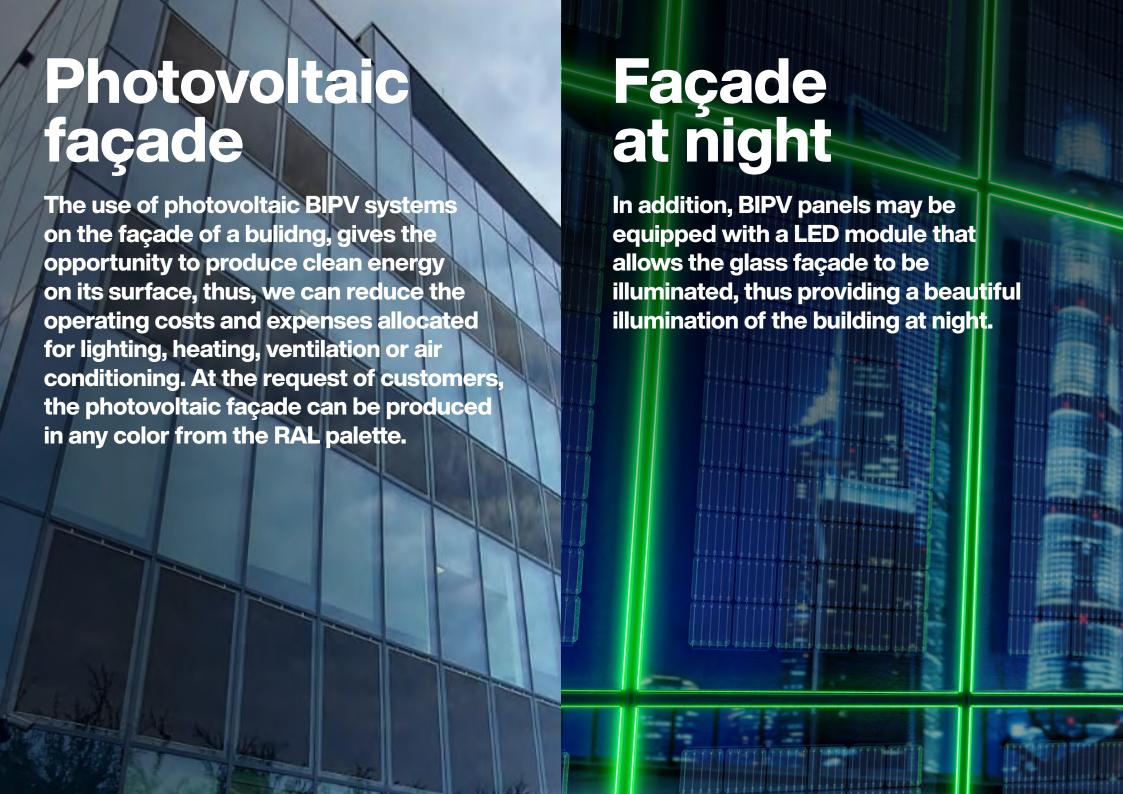
High mechanical and chemical resistance



More light reaches cells







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Photovoltaic farms

Photovoltaic farms are the future. Due to the use of our innovative glass, Energlass photovoltaic panels produce more energy compared to traditional products on the market. Two panes of glass with additional coatings mean that the amount of solar energy on the surface of the photovoltaic module is maximized, also due to the effect of reflecting rays from the ground onto the back of the module.



Renewable energy



Reduces electricity costs



Light absorption from different angles of incident light



Both sides light absorption

Anti-Soiling Glass-Glass module



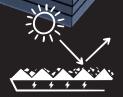












Self-cleaning diffused glass means from 3% up to 15% more produced energy

Glass-Glass Solar modules

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Regular PV panel (glass-foil)

Protection

method

Protected by tempered glass on two sides of the module, much more durable and resistant to harmful factors

With only one layer of glass on the top side, theyare less strong and canwithstand static loads less well

Resistance

to micro-cracks



Protected by tempered glass on two sides of the module is completely resistant to mechanical loads, reducing the risk of microcracks



The use of twoinhomogeneous materials (glass and plastic backsheet) in the event of deflection of the panel, much less protects the cells,which consequently causes micro-damage.

Fire safety



Can be a source of fire

Lifespan

30-50 yrs

20-<u>25</u> yrs

Efficiency

warranty

87% after **30** yrs

80% po 20-25 yrs

Performance drop

0.4% per year

0.7% per year



Matte PV glass-glass module

Model: ASOL-320P-AR-DF_GG

Module	ASOL-320P-AR-G
Maximum power Pmax	320 Wp
Open circuit voltage Voc	40,14 V
Short circuit voltage Isc	9,89 A
Maximum power voltage Vmp	34,26 V
Maximum power current Imp	9,34 A
Power tolerance	-0/+5Wp
000 W/m², spectrum 1,5 AM, cell tem	nperature 25 °C
000 W/m ² , spectrum 1,5 AM, cell tem The electrical characteristics listed or ary slightly from the specifications d nanufacturing.	nperature 25 °C nperature 25 °
000 W/m ² , spectrum 1,5 AM, cell tem The electrical characteristics listed or ary slightly from the specifications d nanufacturing.	nperature 25 °C nperature 25 °
STC values measured under standard 000 W/m², spectrum 1,5 AM, cell tem The electrical characteristics listed or early slightly from the specifications of manufacturing. ELECTRICAL PARAMETERS STC Load resistance Application class	nperature 25 °C name of the product rating label may ue to the batch of cells used in

Dimensions	1710x1000 mm
Weight	34,5±0,5 kg
Front glass	4±0.2 mm tempered
Middle glass	
Back glass	4±0.2 mm tempered
Enkapsulant	Copolymer EVA
Cells	Monocrystalline Si
Backsheet	
Frame	
Socket	IP68, 3 by-pass diodes
Cabling	Wires 4mm ² , 2x1000mm
Transparency	H70-H90
POWER DROP	
Power drop up to 1 year	97%
Power drop up to 10 year	s 92%
Power drop up to 30 year	rs 87%

		Yes
SYSTEM PARAI	METERS	
Maximum syste	m voltage	1000 VDC
Safety class		II
Mechanical load	k	5400 Pa
Mechanical load		2400 Pa
LABELS	Type of glass	Anti-reflective
DF	Type of glass	Diffused
	Module color (frosted matt/black matt	
MATT/BLACK	Module type, glass-glass	
MATT/BLACK GG	Module type, g	
	Module type, g	

Example parameters of a photovoltaic module. In the case of customization of modules in terms of size, shape and color, mechanical and electrical parameters are calculated individually.





Maximum sustainability



Reduces carbon emission

100_{MWh}
=
1100
planted trees

reduce
the carbon
footprint of
your home

DA GLASS

Light is infinite potential.

Light is an opportunity for growth.

Light is a better life.

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