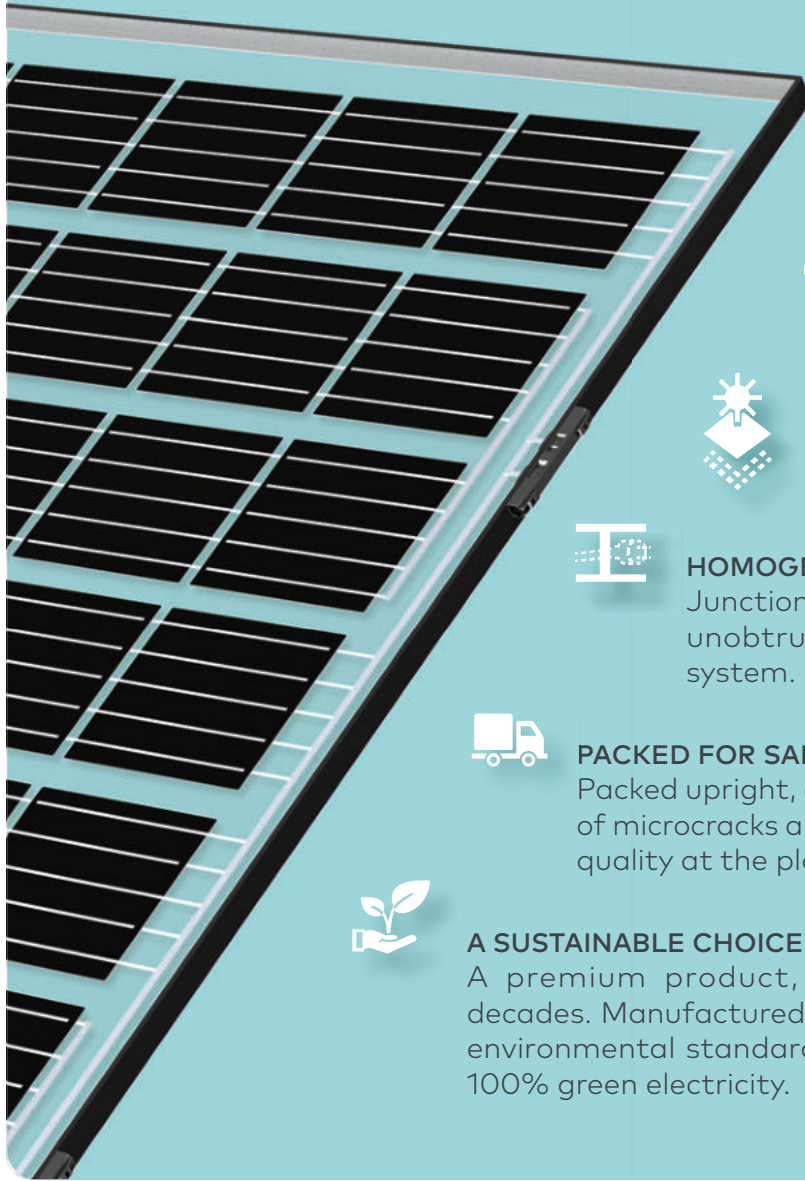


ISOLANTE 210 W

Premium PV Panel

Solar
insulating glass.



BUILDING PRODUCT

Insulating and thermal glazing for façades and roofing in buildings.



ISOLATION

Double glazing with U-value
 $1.1 \text{ W}/(\text{m}^2\text{K})$.
Triple glazing on request.



TRANSPARENCY ~28%

The perfect balance of light and shadow.



HOMOGENEOUS OPTICS

Junction boxes can be installed
unobtrusively in the mounting
system.



PACKED FOR SAFE TRANSPORT

Packed upright, avoiding the emergence
of microcracks and thus ensuring factory
quality at the place of delivery.



A SUSTAINABLE CHOICE

A premium product, which lasts for
decades. Manufactured according to rigid
environmental standards. Produced with
100% green electricity.

MADE IN GERMANY!

Right here. In Prenzlau. In our production facility.
Here we manufacture under the aspects of
quality & durability since 2001.

FULL SERENITY



Years linear
Power Guarantee*



Years
Product Warranty*

100% cost recovery of guarantee claims.

Under the terms and conditions of the respective guarantee certificate.

* The product and performance guarantee applies only to the PV component of the insulating glass.

QUALITY UNDER HAND AND SEAL



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aleo

aleo solar PV-Insulating glass Isolante

BASIC DATA PV-INSULATING GLASS

Length x width x height	[mm]	1600 x 950 x 33.8
Weight	[kg]	54
Number of cells		40
Cell size	[mm]	158.75 x 158.75
Cell material		Monocrystalline Si, PERC
Front glass		PV module Elegante (4 + 4 mm TSG with AR coating)
Space in between		Argon gas
Back glass		4 + 4 mm laminated safety glass
U-value	[W/(m²K)]	1.1 (according standard for heatsaving glazing)

BASIC DATA JUNCTION BOX

Length x width x height	[mm]	105.8 x 15.5 x 12.5
IP class		IP67
Cable length	[mm]	820
Connectors		TE Slim Line
Bypass diodes		2 (one per junction box)

TEMPERATURE COEFFICIENTS (PV MODULE)

Temperature coefficient I_{sc}	$\alpha (I_{sc})$	[%/K]	+0.05
Temperature coefficient V_{oc}	$\beta (V_{oc})$	[%/K]	-0.29
Temperature coefficient P_{MPP}	$\gamma (P_{MPP})$	[%/K]	-0.40

ELECTRICAL DATA (STC) (PV MODULE)

I40D200

Rated power	P_{MPP}	[W]	210
Rated voltage	V_{MPP}	[V]	22.3
Rated current	I_{MPP}	[A]	9.42
Open-circuit voltage	V_{oc}	[V]	27.1
Short-circuit current	I_{sc}	[A]	9.71
Efficiency	η	[%]	13.2

Electrical values measured under standard test conditions (STC): 1000 W/m²; 25°C; AM 1.5

ADDITIONAL ELECTRICAL DATA (PV MODULE)

Reduction of STC efficiency from 1000 W/m² to 200 W/m²	[%] rel.	< 2
Classification range (positive classification)	[W]	0/+9.99

Measurement tolerance of P_{MPP} under STC -3/+3% |
Accuracy of other electrical values -10/+10%
Efficiency relating to gross PV-safety glass area

CERTIFICATIONS AND WARRANTY (PV MODULE)

Product Guarantee*	30 years
Power Guarantee*	30 years
Fire Resistance	Class A
Protection Against Electric Shock	II
Certifications	architectural certification from DIBt

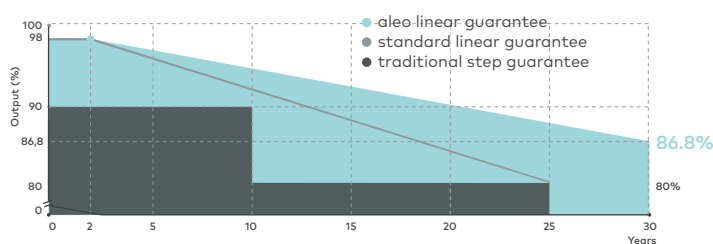
*The product and power guarantee applies solely to the PV component of the insulating glass.

PHOTOMETRIC DATA

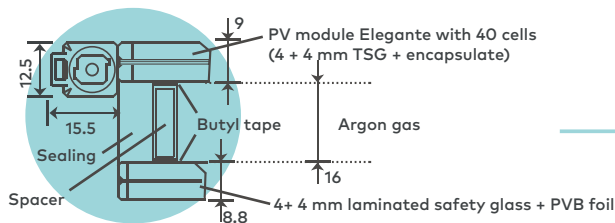
U value	[W/(m²K)]	1.1 (according to standard for thermal insulation glazing)
g-value		0,33**

**The value was calculated with the programme "SommerGlobal" under the boundary condition "summer" for the assessment of comfort and cooling load according to DIN EN ISO 52022-3 point 6.4.6. There is currently no regulation and measurement procedure for determining the g-value for mono-Si PV modules.

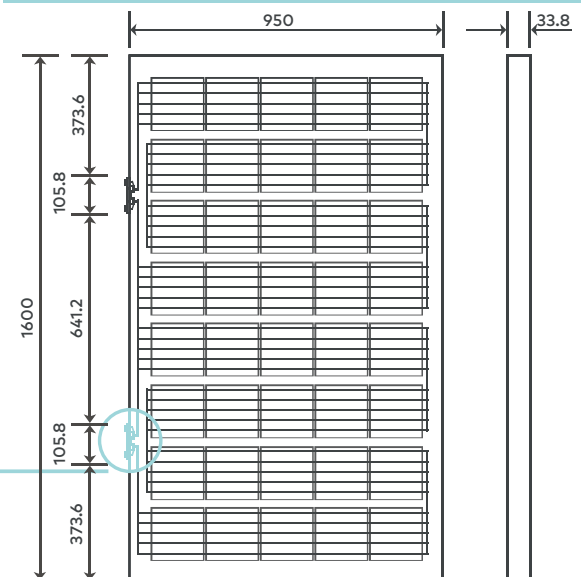
PERFORMANCE GUARANTEE



CONSTRUCTION ISOLANTE INCL. DIMENSIONS JUNCTION BOX [mm]



DIMENSIONS [mm]



PLEASE CONTACT YOUR AUTHORISED ALEO DEALER

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