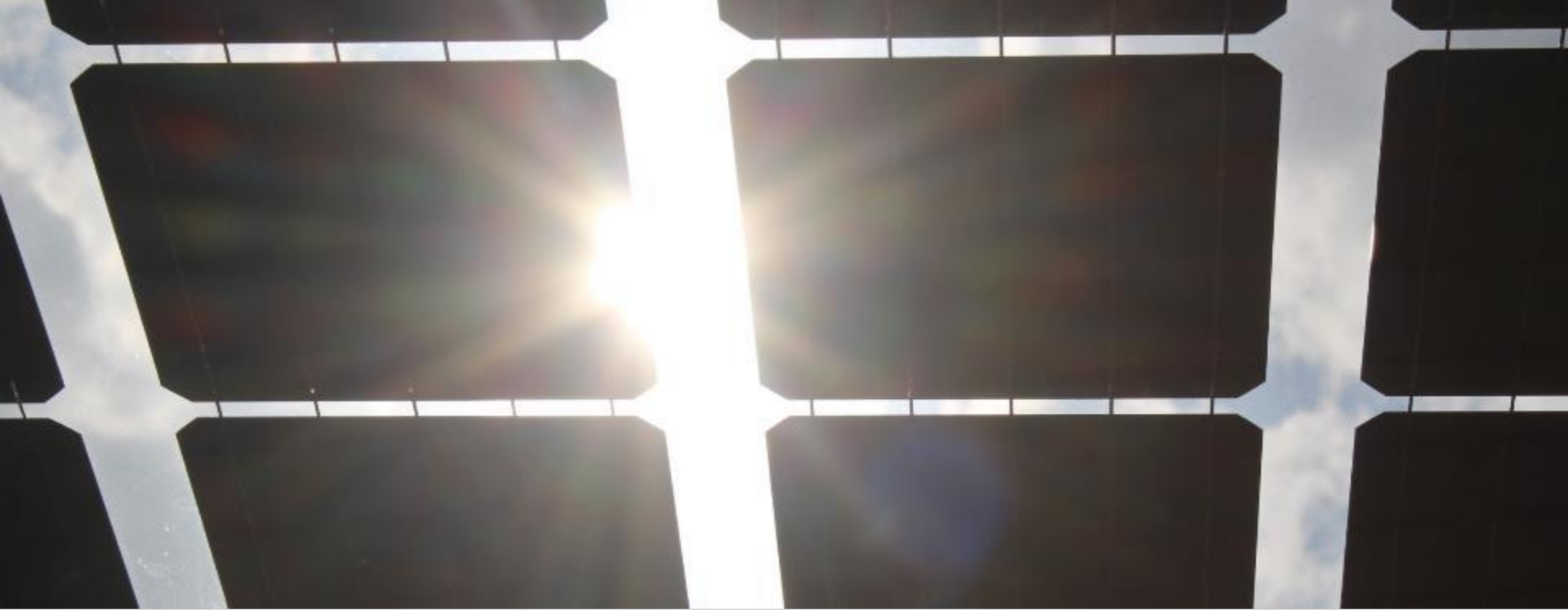
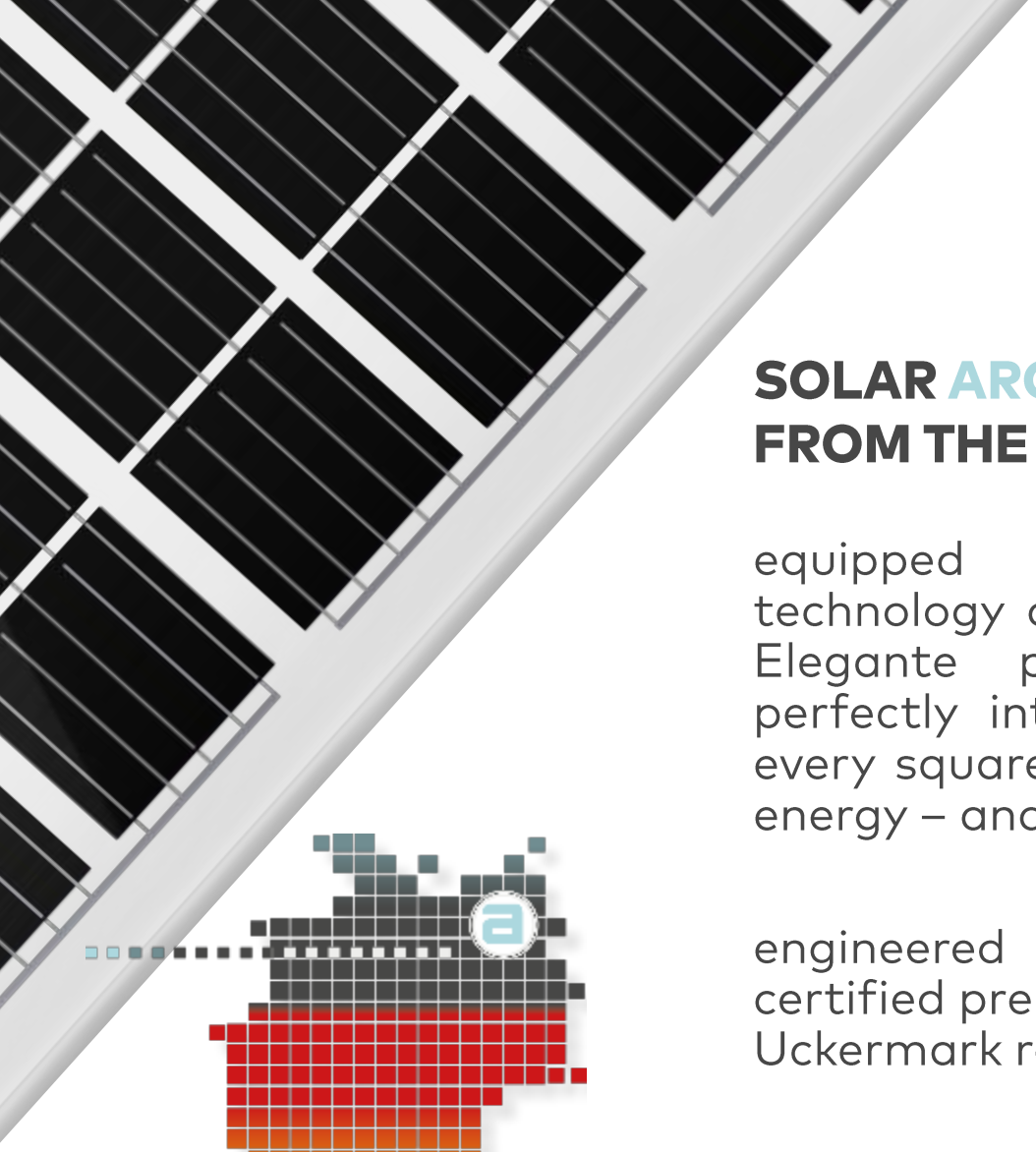


aleo ELEGANTE & ISOLANTE
SOLAR ARCHITECTURE RELOADED!

solar construction with safety and insulating glass.
something you can rely on. for at least 30 years.

aleo



SOLAR ARCHITECHTURE FROM THE UCKERMARK REGION

equipped with high-performance technology and monocrystalline cells, our Elegante panel not only integrates perfectly into the building, it also uses every square meter to produce maximum energy – and it looks great while doing it.

engineered and manufactured in our certified premises, right in the heart of the Uckermark region.

MADE IN GERMANY

quality at its top!

ELEGANTE – PERFECT FIT FOR YOUR BUILDING PROJECT

size really doesn‘t matter

Canopies

Carports

Façades

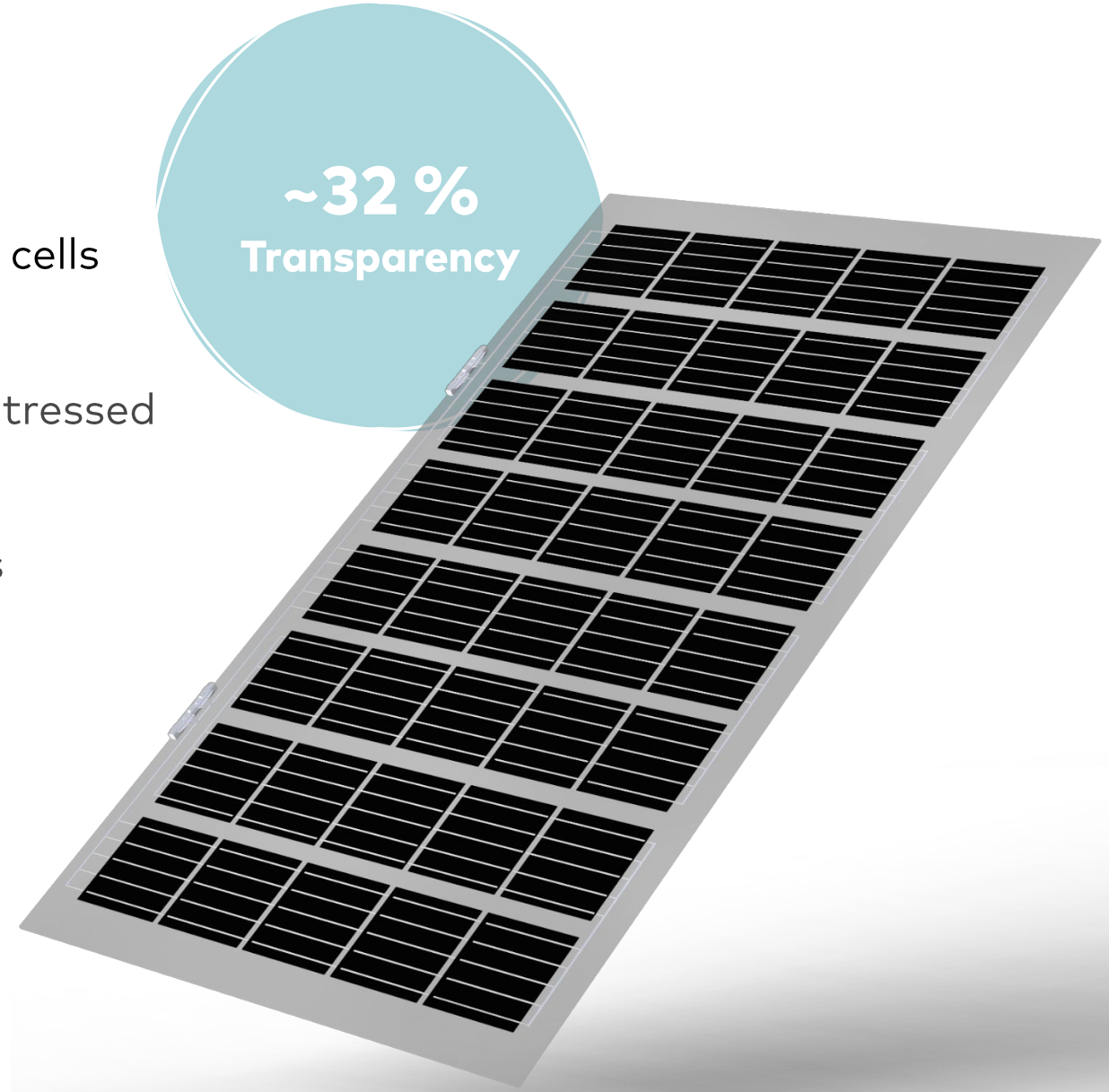
ELEGANTE – AT A GLANCE

- transparency ~32 %
  (built-in ~28 %)

- 40 HE monocrystalline cells
- 210 Wp
- 1.600 mm x 950 mm
- 4 + 4 mm partially prestressed safety glass

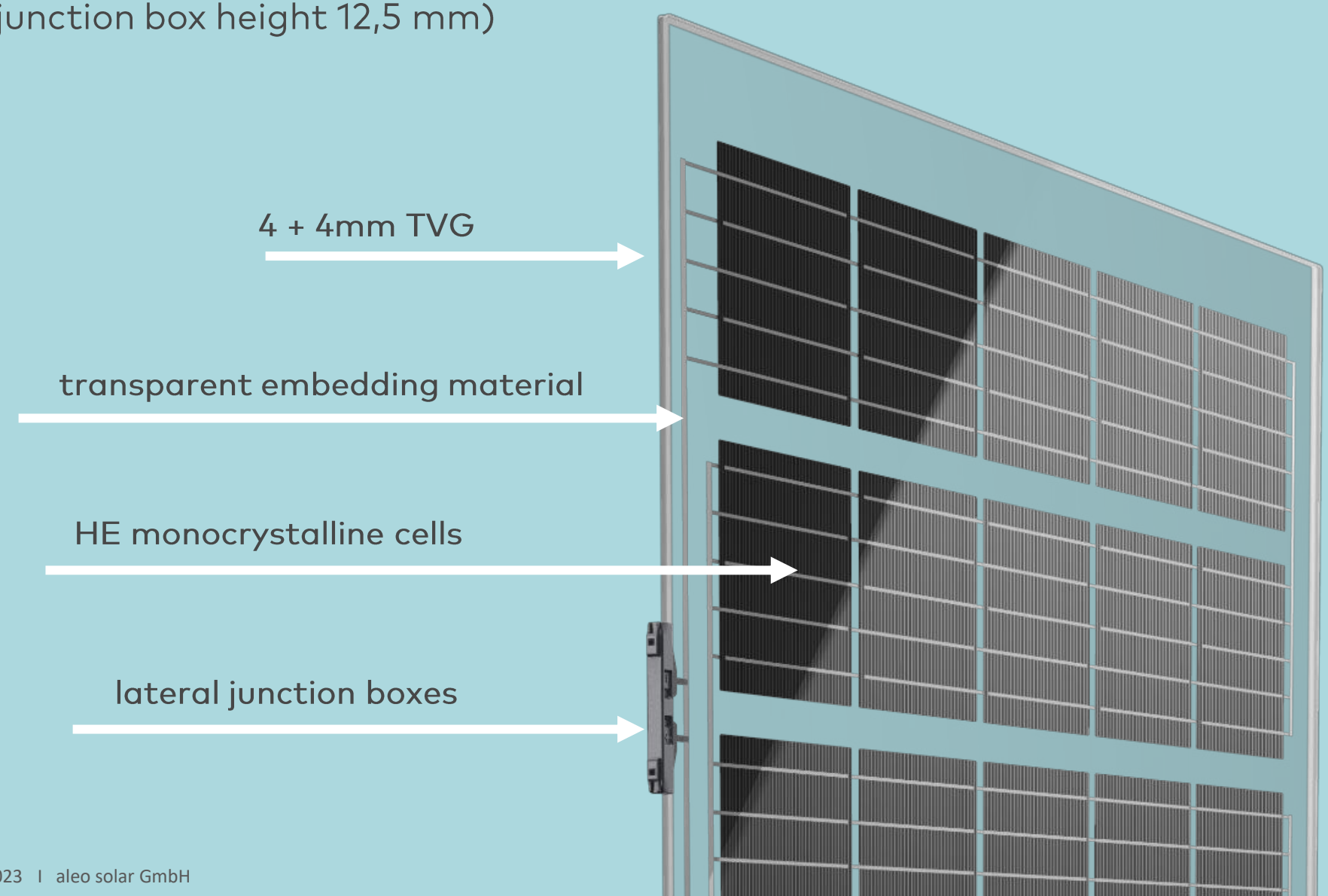
- 2 lateral junction boxes
- 31,5 kg weight

- DIBt Certification
- 30-year product and power warranty



ELEGANTE – HOW IT'S MADE

dimensions: 1.600 mm x 950 mm x 9 mm
(junction box height 12,5 mm)



DIBt APPROVAL

Germany and the fascination of norms, especially when it comes to building products

Elegante has successfully passed the demanding procedure of the German Institute for Construction Technology. It means it has been approved as laminated safety glass (VSG) and is therefore a regulated and authorized construction product.

Thanks to this authorisation you can proceed with your projects in a stress-free and uncomplicated way.

The design, dimensioning and implementation of the glass are subject to the provisions of laminated safety glass in accordance with DIN 18008.

Deutsches Institut für Bautechnik DIBt

General Building Approval Number Z-70.3-258

FIRE CLASS A

Even in case of fire, our glass-glass module offers the highest safety.

Elegante has been successfully tested by MPA Dresden for fire class A according to IEC 61730-2 and thus meets the highest requirements for fire resistance of PV modules.

IEC 61730-2 (Photovoltaic (PV) modules - Safety qualification) categorizes the requirements into classes A,B and C, with A being the highest class.

MPA Dresden
Akkreditiertes Brandschutzkompetenzzentrum

MPA Dresden

Zertifikat
Certificate

Nr. / *No.* 20220117/01

Auftraggeber: *Sponsor:*	aleo solar GmbH Marius-Eriksen-Straße 1 17291 Prenzlau, DEUTSCHLAND
Hersteller: *Manufacturer:*	aleo solar GmbH Marius-Eriksen-Straße 1 17291 Prenzlau, DEUTSCHLAND
Produktname: *Product name:*	Elegante G40
Inhalt: *Content:*	IEC 61730-2:2016-08 „Photovoltaic (PV) module safety qualification – Part 2: Requirements for testing" MST 23 Fire test
Erstellt von: *Prepared by:*	MPA Dresden GmbH Fuchsmühlenweg 6 F 09599 Freiberg; Deutschland Akkreditierte Prüfstelle nach DIN EN ISO/IEC 17025 *Accredited testing laboratory acc. to DIN EN ISO/IEC 17025* D-PL-17819-01-00
Ausgabe / Datum: *Issue / date:*	1. Ausgabe vom 22.02.2022 *First issue dated 2022-02-22*
Berichtsumfang: *The report comprises:*	2 Seiten *2 pages*
Hinweis: *Information:*	Dieses Zertifikat wurde zweisprachig (deutsch/englisch) erstellt. In Zweifelsfällen ist der deutsche Wortlaut maßgeblich. *The test report is produced bilingual (German and English). In case of doubt the German wording is valid.*

Eine auszugsweise Vervielfältigung und Veröffentlichung von Berichten bedarf in jedem Einzelfall der schriftlichen Genehmigung der MPA Dresden GmbH. Die einzelnen Blätter sind mit dem Firmenstempel der MPA Dresden GmbH versehen.
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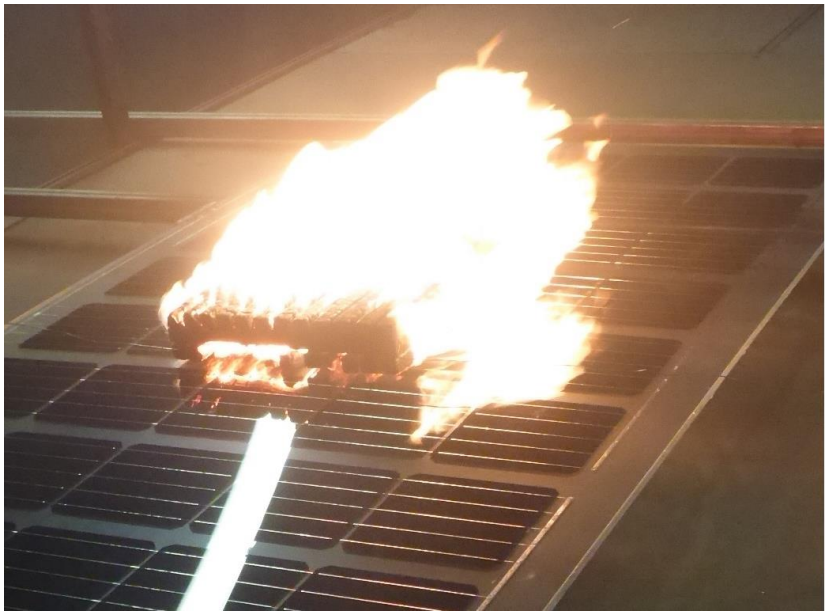
FIRE CLASS A

The fire test according to IEC 61730-2 consists of two tests:

- Spread of flame test
- Burning Brand Test

MPA Dresden
Akkreditiertes Brandschutzkompetenzzentrum

Spread of flame test



Burning Brand Test

elegante. very aleo. very good.

hassle-free. for at least 30 years.

30

30-year product warranty

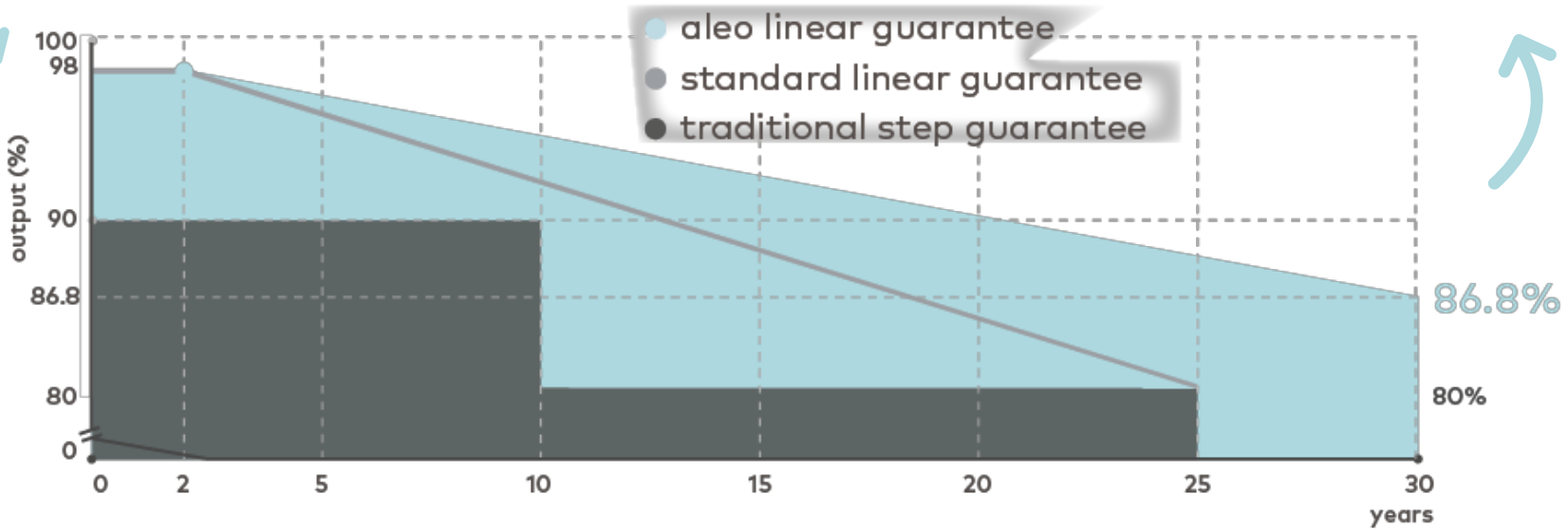
30

30-year linear performance warranty

SIMPLY RELIABLE.
FOR AT LEAST 30 YEARS

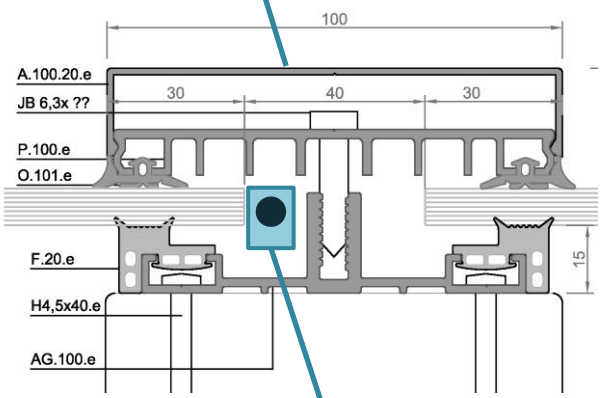
98 % power output in the first two years of operation

86,8 % Power output after 30 years of operation.



MOUNTING PROFILES FOR PV ROOFS

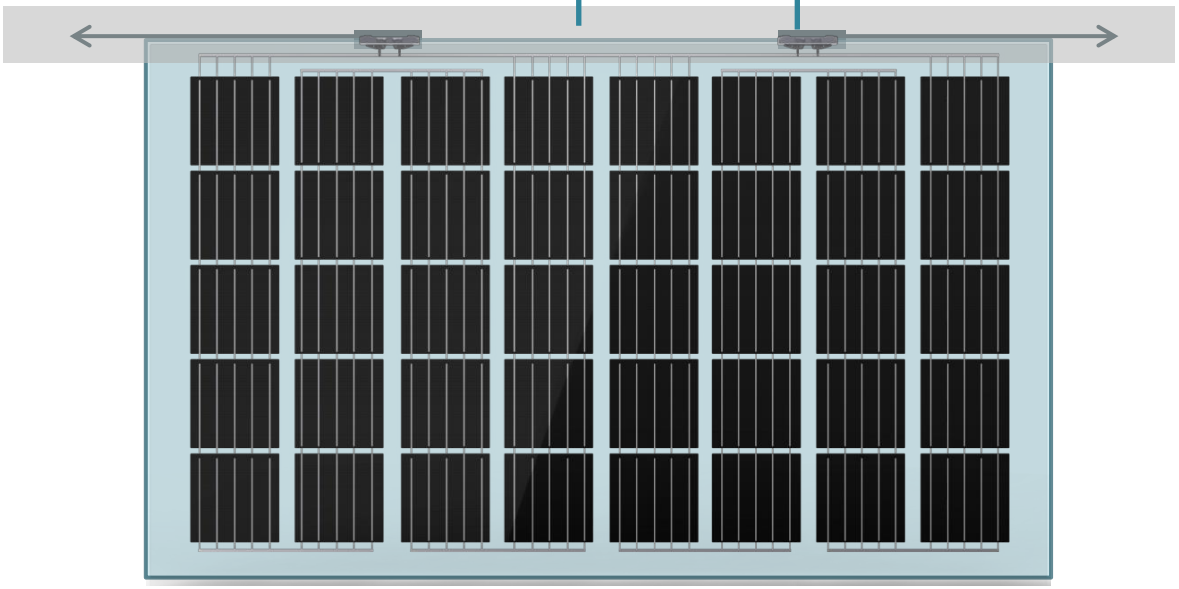
Top profile



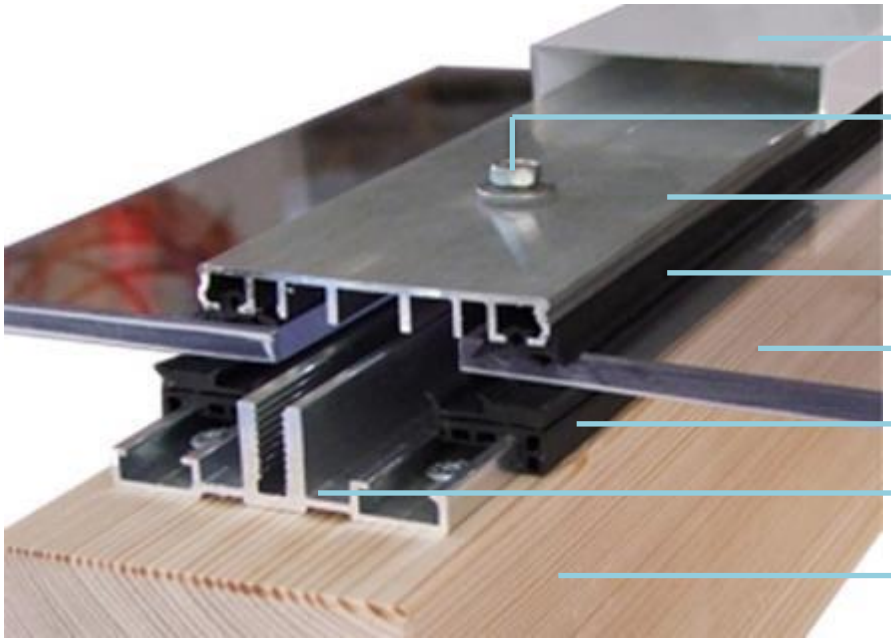
Lateral junction boxes

Hidden side cabling

racks

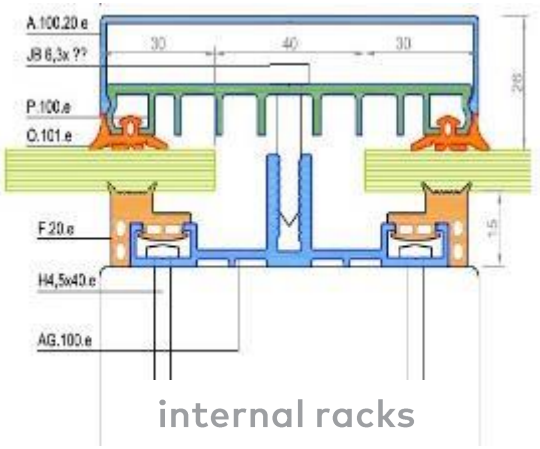


DETAIL OF A MOUNTING PROFILE

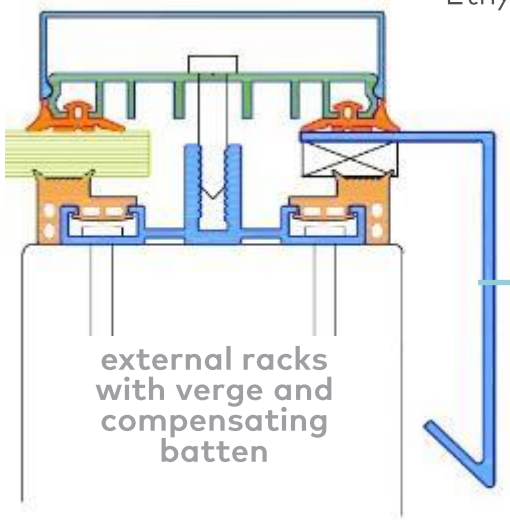


- top profile
- glassing screw
- aluminium clamping profile
- EPDM*- glazing seal
- solar panel
- EPDM*-Glass support seal
- aluminium glass support profile
- wood racks

* Ethylene propylene rubber



internal racks

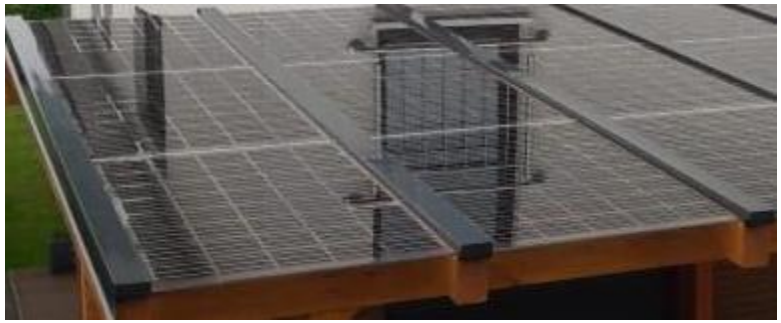


external racks with verge and compensating batten

verge sheet

MOUNTING PROFILE – ADDITIONAL OPTIONS

Top profiles are also available in other RAL colours, e.g. white or anthracite (dark grey)



Example of anthracite top profiles

Example of white top profiles

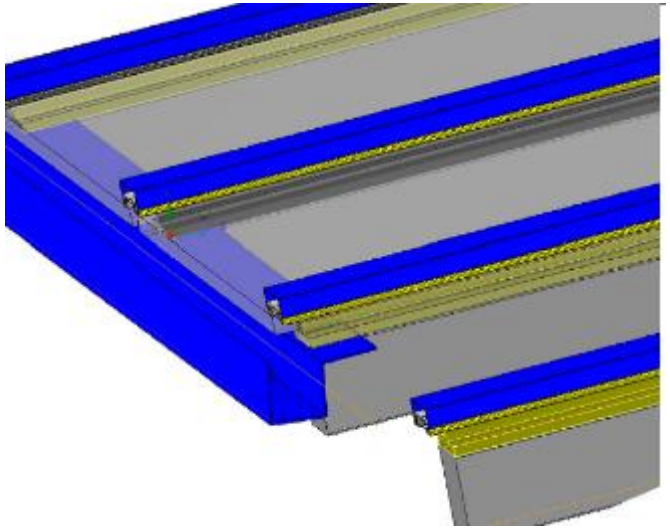
Further elements such as roof gutters, wall connections and metal plates for roof ridge and verge are also available.

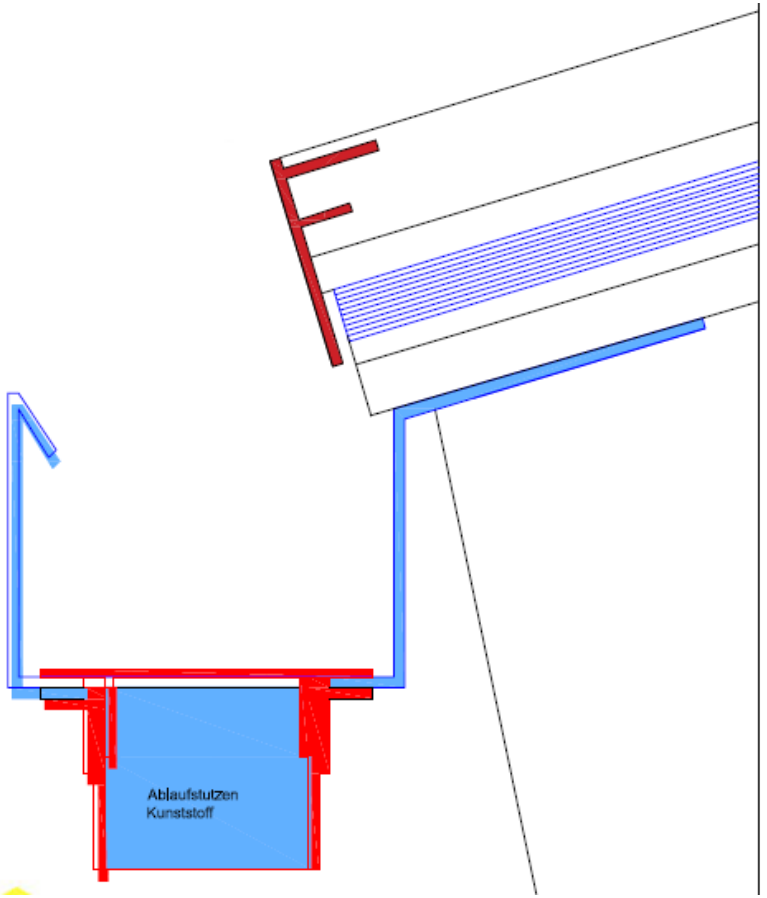
Example of roof gutter

➢ **For any further Information, please don't hesitate to contact us.**

MOUNTING PROFILE – ADDITIONAL OPTIONS

ROOF GUTTER





Example of a roof gutter

→ Custom folded to the desired edge

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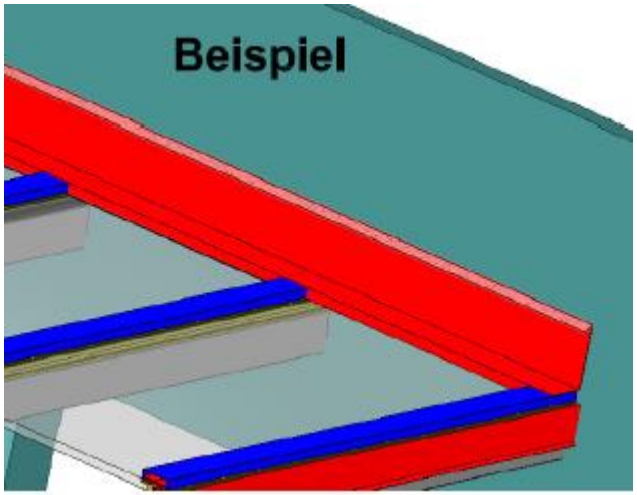
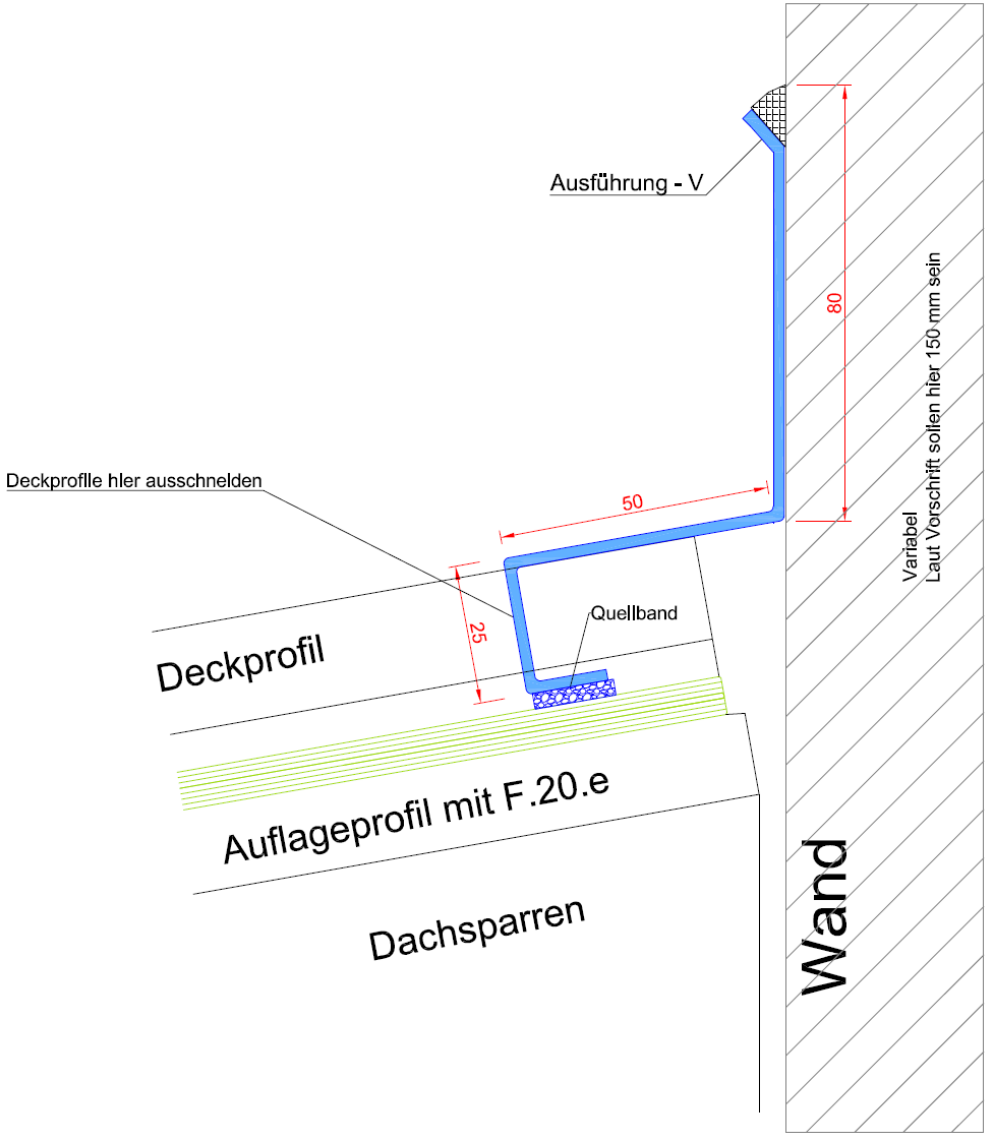
MOUNTING PROFILE - ADDITIONAL OPTIONS

WALL CONNECTION



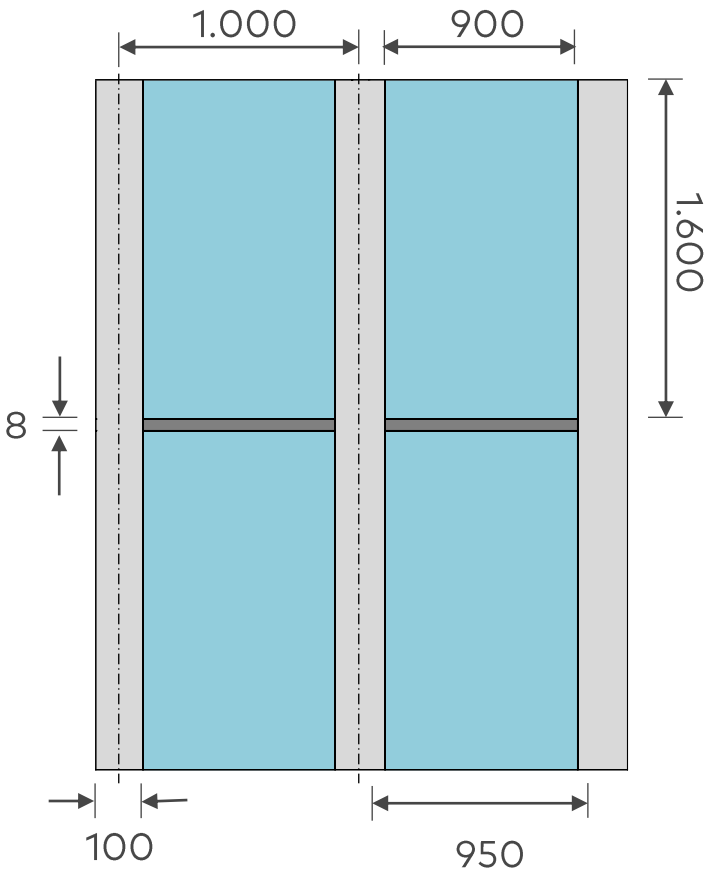


Example of a wall connection

→ Custom folded to the desired edge

➢ For any further Information, please don't hesitate to contact us.

RASTER DIMENSIONS (recommended)



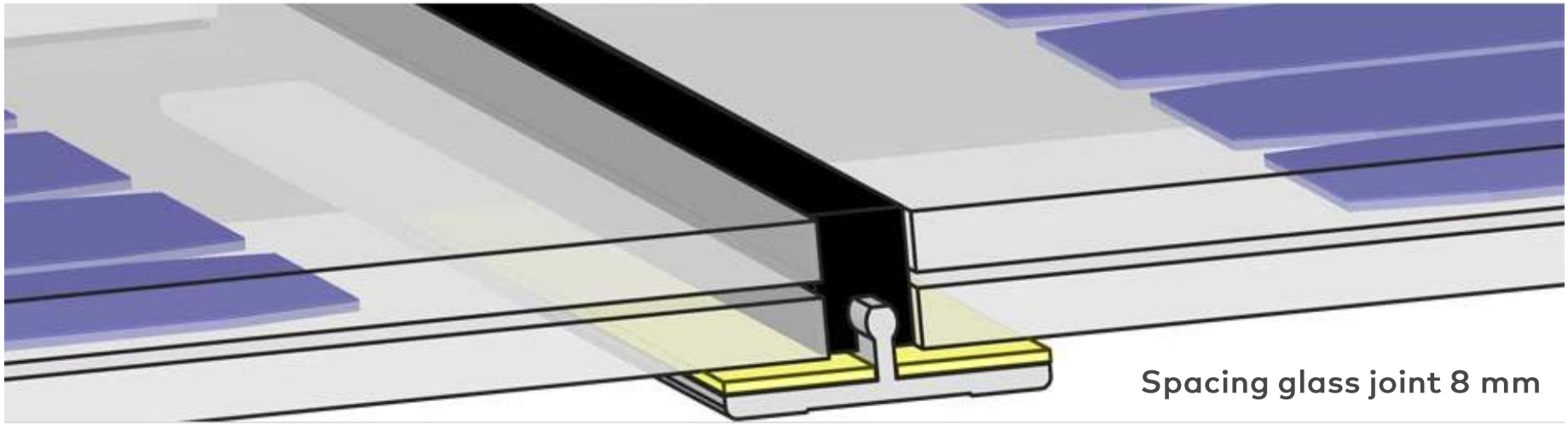
Panel dimensions: 1.600 mm x 950 mm

Measurements needed:

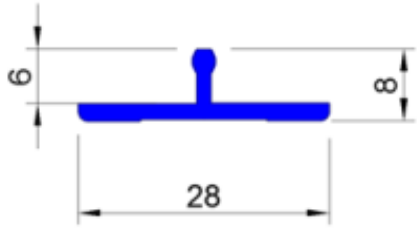
- **Width of the rafters : 100 mm**
- **Central rafter spacing (axis): 1.000 mm**
- **Joint between modules : 8 mm**
- **clearance: 900 mm**
- **Glass support left and right : each ca. 25 mm**

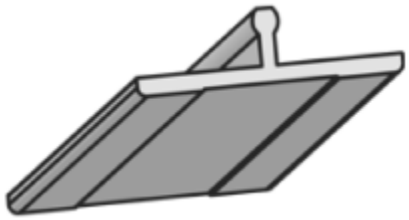
VSG elements (total glass thickness 9 mm) can be installed in the mounting system to achieve a full-surface covering.

DETAILS: FIXING TO GLASS BOTTOM



Spacing glass joint 8 mm

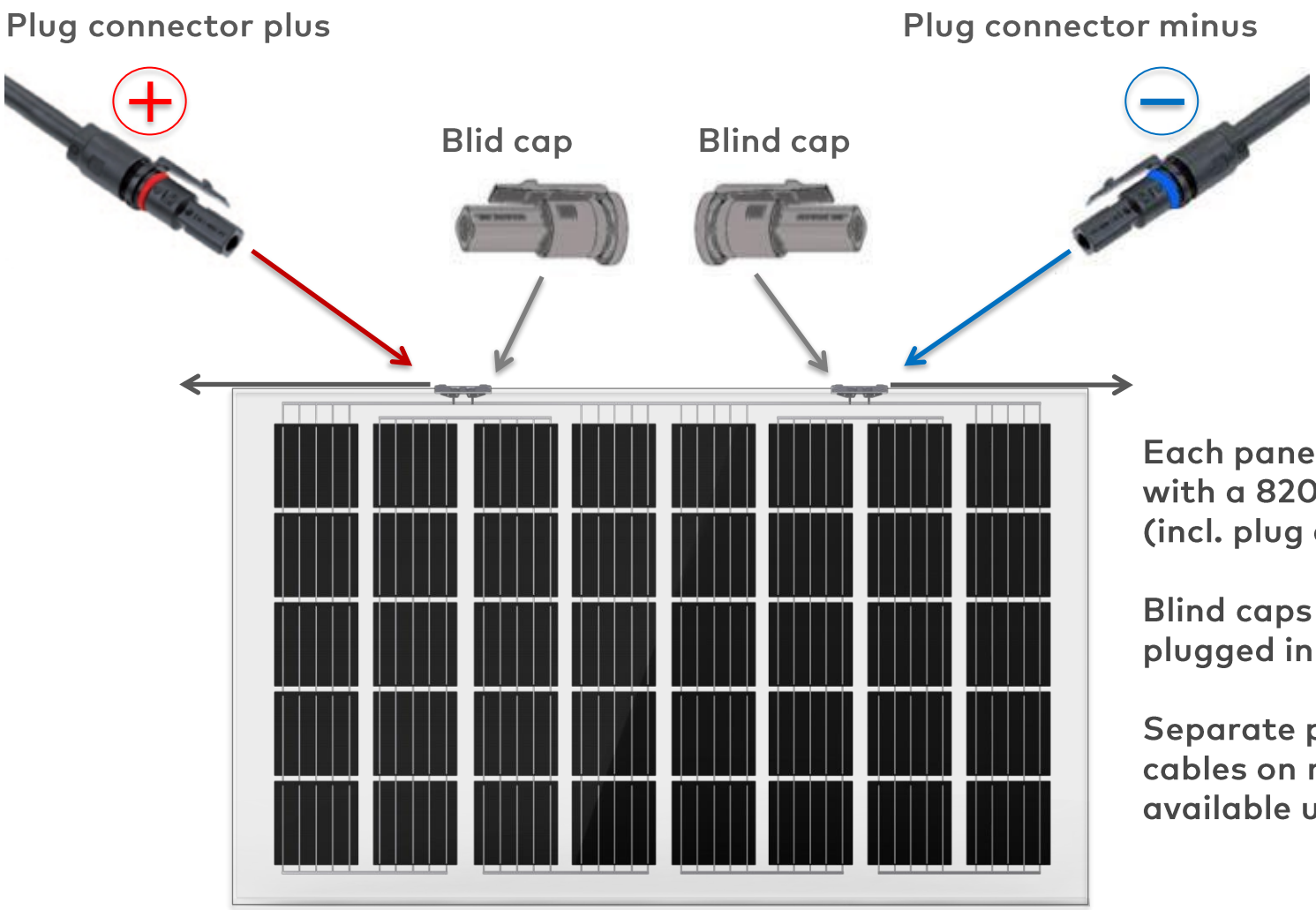




Fill gaps thoroughly from above with special sealant! Remove residues with silicone scraper.

➢ For any further Information, please don't hesitate to contact us.

ELECTRIC CONNECTION

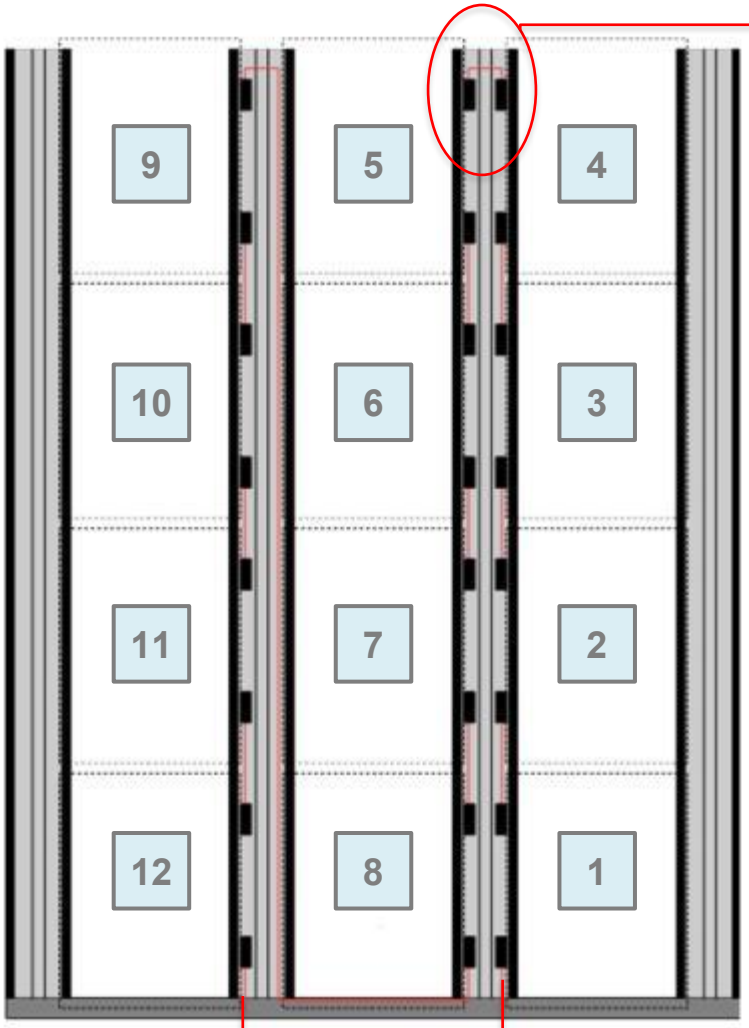


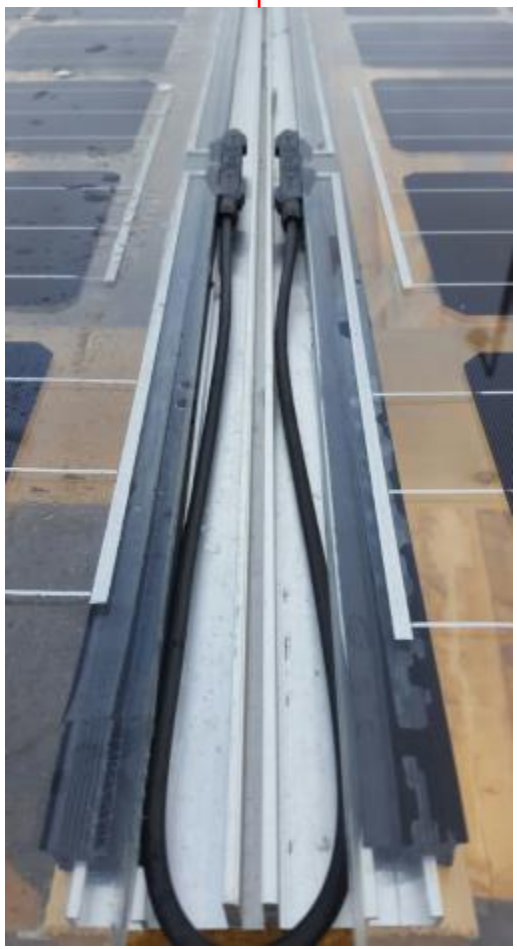
Each panel is equipped with a 820mm long cable (incl. plug connector)

Blind caps are already plugged in

Separate plugs and solar cables on reel are available upon request

EXAMPLE OF A POSSIBLE PV PLANT LAYOUT





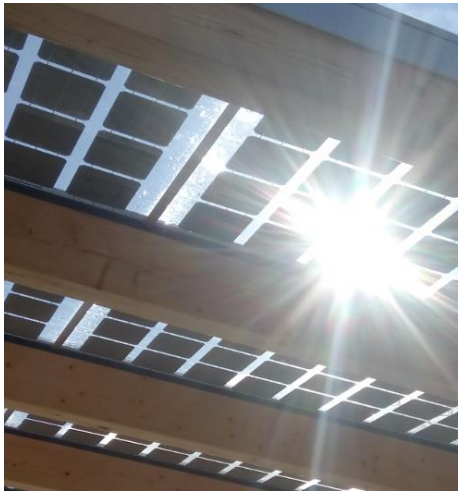
PV inverter

ELEGANT VIEW

OTHER PANEL MANUFACTURERS

Connection sockets and cables are visible. Complicated layout
→ untidy view from below

ALEO



With aleo Elegante: Homogeneous design and spacing between cells and profiles.

→ pleasant view from below: only glass and cells are visible

REFERENCES

S&T HOLZKONSTRUKTION FOR A DOUBLE WOODEN CARPORT

ALEO SOLAR - PRENZLAU - 3,5 kWp - April 2017

REFERENCES

TERRACE ROOFING WITH STEEL SUBSTRUCTURE
EXECUTION BY HEISE HAUS
MÖHRENDORF (ERLANGEN) - 4,8 kWp - 2020

REFERENCES

ROOFING OF CULTURAL HERITAGE

WASSERSCHLOSS WÜLMERSEN (KASSEL) - 29 kWp - June 2020

REFERENCES

ROOFING OF CULTURAL HERITAGE

WASSERSCHLOSS WÜLMERSEN (KASSEL) - 29 kWp - June 2020

REFERENCES

CAR DEALER

Achern-Mösbach - 19,4 kWp - March 2020

REFERENCES

POOL ROOFING

BERLIN - 2,8 kWp - March 2021

REFERENCES

POOL ROOFING

near BERLIN - 3,6 kWp - March 2021

REFERENCES

POOL ROOFING

OFFENBURG - 1,2 kWp - January 2019

REFERENCES

TERRACE ROOFING FOR A SINGLE-FAMILY HOUSE

PRENZLAU - 4,6 kWp - April 2018

REFERENCES

ROOFING FOREST HOUSE PANKOW

BERLIN - 10 kWp - April 2023

ISOLANTE – AT A GLANCE

Insulating and thermal glass suitable for :

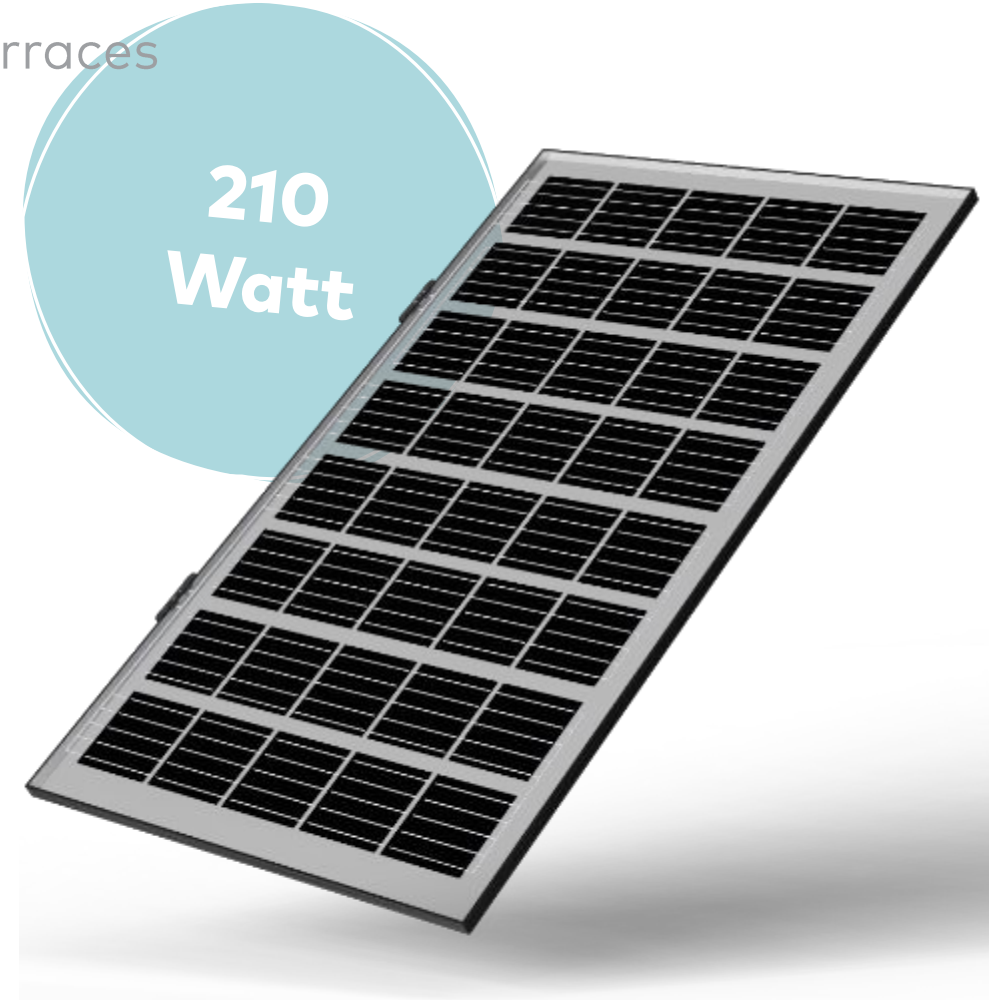
- ✓ Façade elements
- ✓ Window glazing
- ✓ Building canopies / roofing terraces

- Double glazing
- Additional custom structures possible
  (e.g. 3-fold glazing)
- Glass with seamed edges
- Glass interspace 16 mm

- U-value 1.1 W/(m²K)
  (according to standard for Thermal insulation glazing)

- Panel transparency ~32 %

- 30-year performance warranty



ISOLANTE – HOW IT'S MADE

Dimensions: 1.600 mm x 950 mm x 33,8 mm

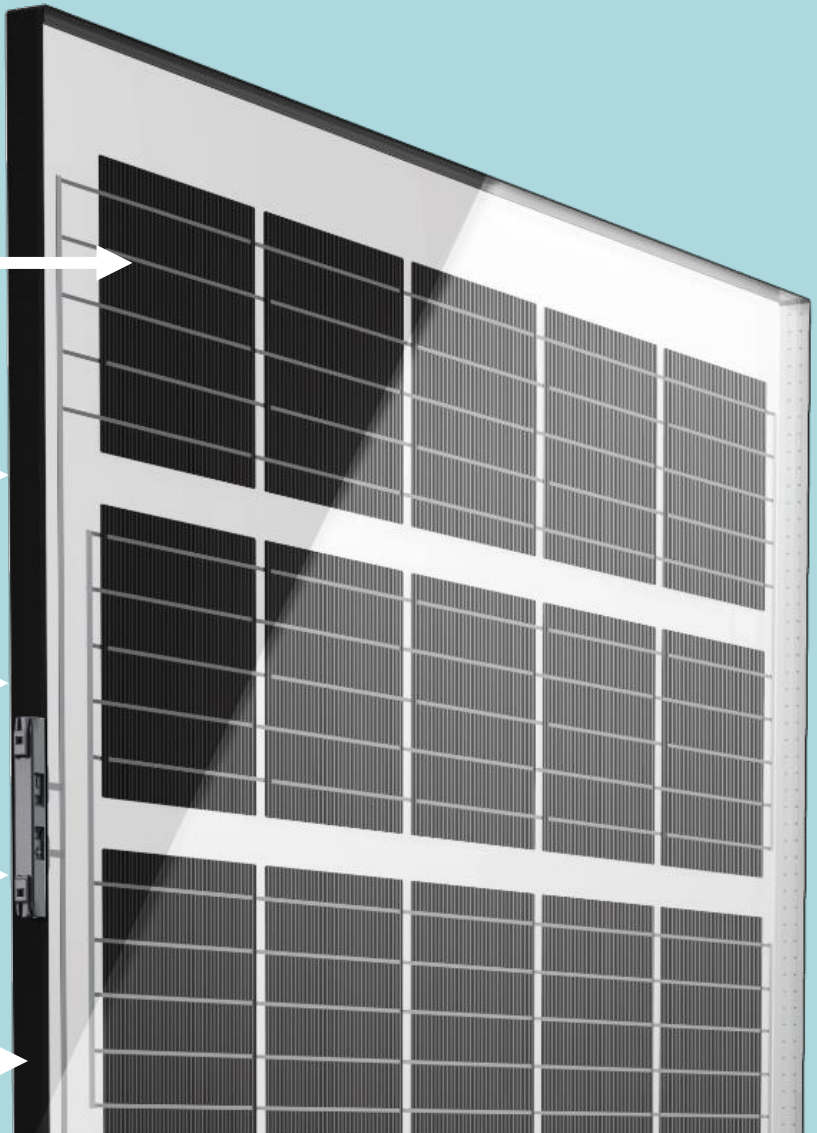
Laminated safety glass (VSG)
Elegante on the front side

4 + 4 mm VSG float glass
on the rear side

Filled with heat-insulating argon gas

Lateral junction box

Seamed edge



REFERENCES

COMPANY BUILDING ANNEXE

OFFENBURG - 1,2 kWp - JanuarY 2019