megasol

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# Leading Architecture
## Integrated Photovoltaics

BIPV

▼ Housing estate in Basel | 2500 m² | Switzerland's most powerful PV facade

▲ Office building in Lucerne | Complete renovation and refurbishment with black PV facade





# **Overview**
# Building-integrated photovoltaics

# Facade integration



▲ Apartment building in Zurich | Solar facade with carbon-like appearance | Swiss Solar Prize Diploma 2019

▲ Coop Letzipark Zurich | Solar facade with individually coloured modules

# Roof integration



▲ Apartment building in Zurich | MATCH Tile integrated system

Image: Willy Beyeler & Söhne AG

▲ Apartment building in Lucerne | LEVEL integrated system

# Open structures



▲ Valley station Klein Matterhorn | 2'923 m.a.s.l. | Swiss Solar Prize 2018

Image: Solarbau Lowel GmbH

▲ Industrial Building in Arbon | Swiss Solar Prize 2017

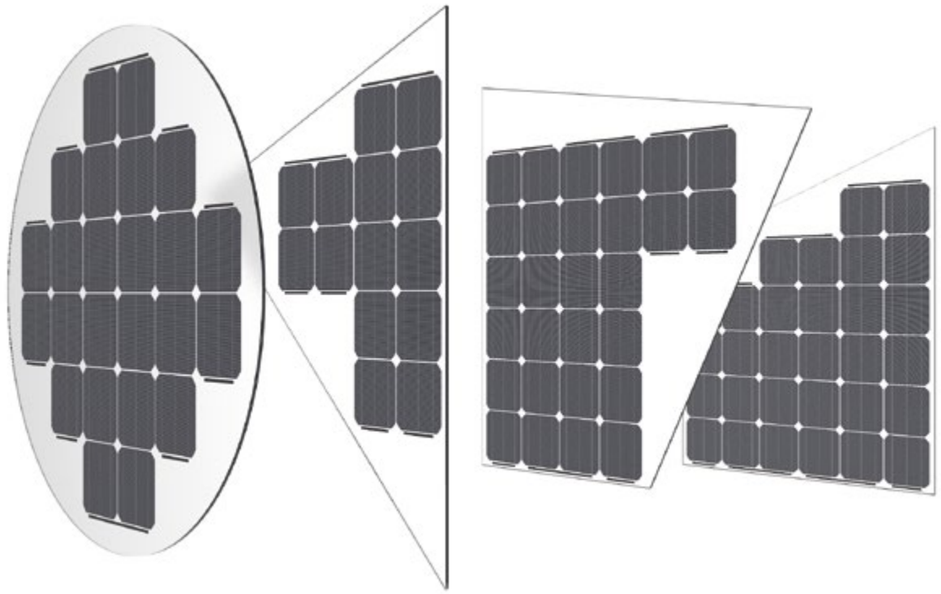
# Completed metamorphosis

Solar modules are concluding their development towards a freely designable building material. The design of this building material starts with the vision of the overall project. These steps lead from the central idea to the solar module.

1

**The grid defines the shape, size and power of the solar modules**

Rectangles, triangles, polygons, circles, curves, cut-outs: the free choice of the solar modules' geometries is the starting point for the design. The measurements range from 200 x 300 mm to 2400 x 4150 mm. Glass thicknesses of 2 - 12 mm per pane can be processed. Cost advantages are achieved by using the standard size of 1669 x 999 x 8 mm. The degree of hardening (TVG, ESG) can be chosen freely.



Special shapes

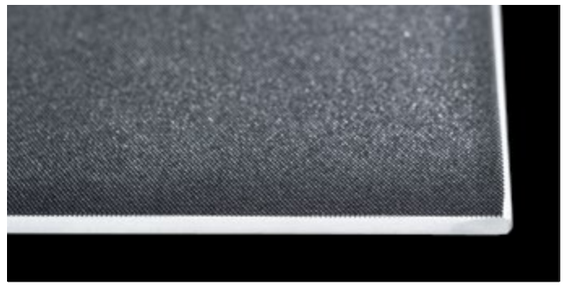
▲ Housing estate in Bern | 2000 m² solar facade in retro bronze

## 2 The appearance determines the surface of the solar modules

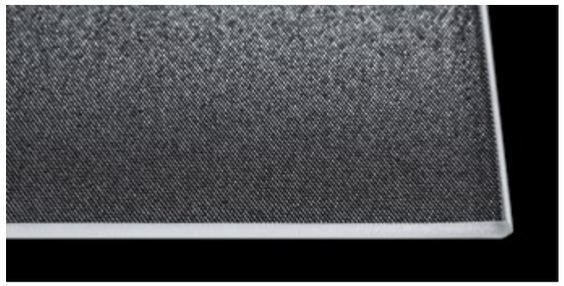
The full spectrum of the material «glass» is available for the design. Structures and finishes of surfaces are possible, along with the targeted use of reflections.
Solar glass is the basis of most integrated solar modules, due to its subtle structuring and highest efficiency. This structuring ensures a high light absorption and minimal glare.

**A** Mountain Lake

**B** Frost

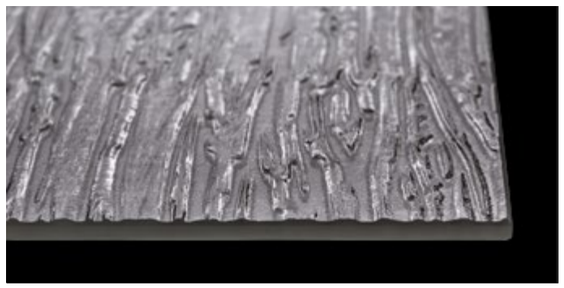


**C** Fjord

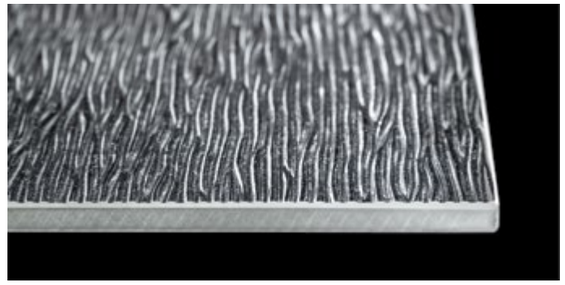


**D** Crystal

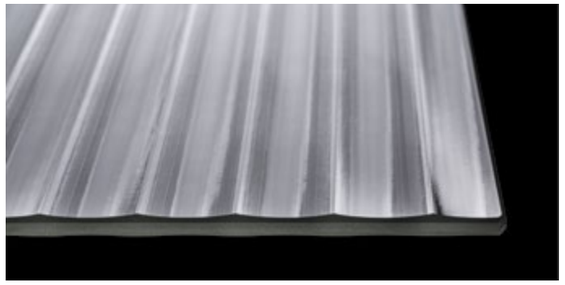
**E** Glacier



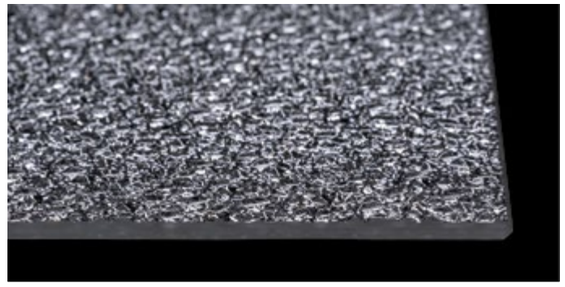
**F** Creek



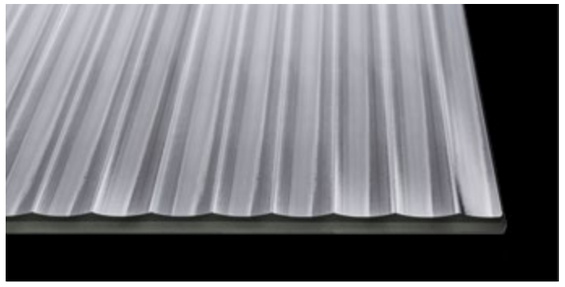
**G** Stream



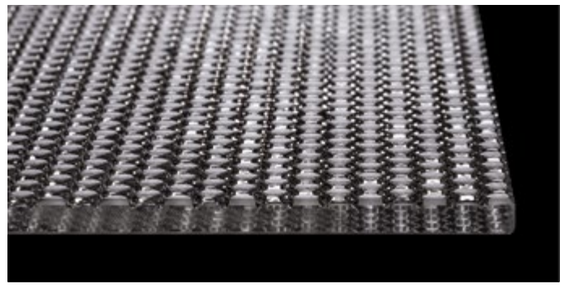
**H** Wave



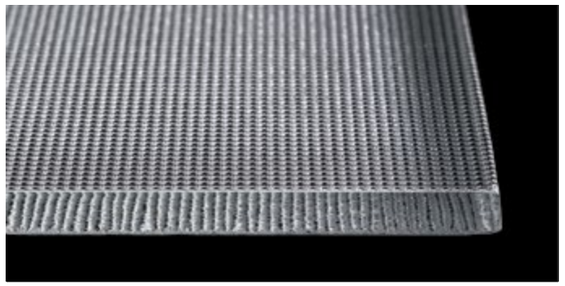
**K** Ice Diamond



**L** Ripple



**I** Pearl *(upon request)*



**M** Snowdrift *(upon request)*

**N** Mistral *(upon request)*

## 3 The character results from the colours and their intensity

**Fine Line:** The classical pinstriped look allows accents with the help of technology. This design option is the most efficient both in terms of performance and costs.

**Totally Black:** By concealing the busbars (cell contacts), discretion can be increased, so that the technology is only visible at second glance.

**Translucent:** Solar modules with translucent cell spacing for open structures. The degree of light transmission and output performance can be balanced by adapting the cell spacing.

**Fine Art:** The colour of the solar modules is open. It is possible to design with light pastel tones, as well as with rich earthy tones. Three sources can be used for the choice of colour:
> SOLARCOLOR colour chart (time and cost-efficient)
> NCS colour chart (wide colour spectrum)
> Individual colour development (completely open)

High colour intensities (opacity) make the cell structure disappear, keeping the solar secret of the building envelope. Light intensities, on the other hand, allow a technoid impression and performance up to 95% of a conventional solar module (up to 195 Wp/m²).

SOLARCOLOR «Spring»

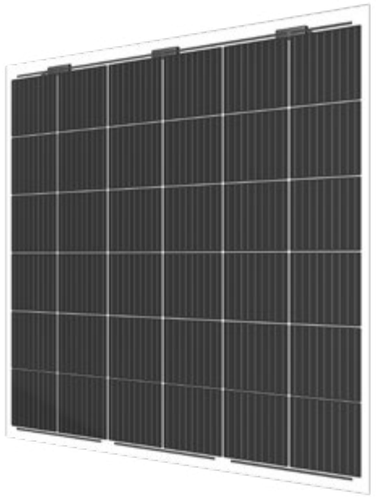
SOLARCOLOR «Summer»

SOLARCOLOR «Autumn»

SOLARCOLOR «Winter»


**Fine Line** Design


**Totally Black** Design


**Translucent** Design


**Fine Art** Design


«Creek Granite Grey» with ZeroReflect

### Upgrade ZeroReflect

The acceptance of solar installations among the population is very high. It is reinforced constantly with new types of designs and unrestricted individualisation options. ZeroReflect is a surface developed in the Megasol design laboratory that is glare- and reflection-free – regardless of the installation situation, angle or time of day.
It is used for particularly high demands in terms of "glare-free" solar modules. These include special installation situations, sensitive, subjective perception or regulatory restrictions (e.g. traffic junctions).

# **HiR** cell technology

Achieving a record-breaking cell efficiency of over 25%

### The new proprietary cell technology

HiR (pronounced like the word "higher") is a proprietary cell technology from Megasol. HiR is based on n-type wafers, which for decades have proven to be the highest quality and most stable technology. The n-type HiR technology combines charge carrier selective contacts, so-called ultra-thin tunnel oxides ($SiO_2$), with a sophisticated multi-stack metallization and a multi-level anti-reflective coating.

### The most power-stable modules in the world

n-type HiR solar modules have a much higher power stability compared to conventional PERC modules. n-type HiR modules have a significantly lower power degradation and are completely PID- and LID-free due to their design. This results from the fact that n-type HiR is completely insensitive to boron-oxygen complexes responsible for PID.

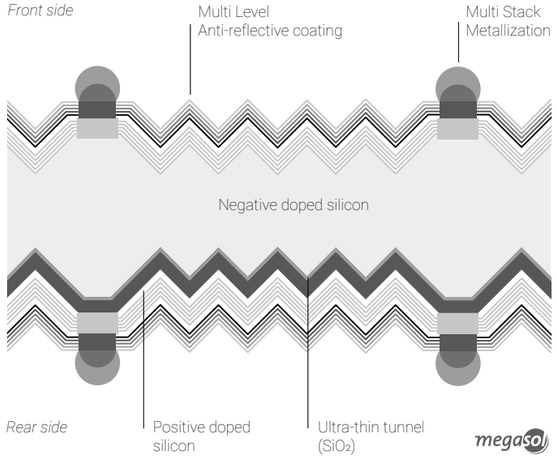
In the market, PERC modules with 4-5% power degradation due to PID or LID are also considered "PID-free". However, a 4-5% difference in yield can have a massive impact on the economic profitability of solar plants. n-type HiR modules have 0% PID and 0% LID and are thus the most power-stable modules in the world.

### Better economic profitability and higher project yields

- n-type HiR modules have a very high power output combined with very compact dimensions. More yield per roof area leads to higher economic efficiency and better project yields.
- An optimal thermal coefficient and better low-light performance lead to more yield per kWp.
- All HiR modules are bifacial and have a significantly higher bifaciality factor (over 90% instead of the usual 70-75%).
- Considerably lower proportion of grey energy

### How it works: simply explained

The ultra-thin tunnel oxide layer reduces recombination losses and thus significantly increases efficiency. The very fine front and rear contact grids guarantee ideal electrical current absorption capability with good solderability and conductivity thanks to their layers that have each been optimised for their respective characteristics. Thanks to the anti-reflective coating, which is not only classically single-layered but multi-layered, the reflection losses on the cell surface are minimised. At the same time, the cell surface appears darker (black), which makes it even more attractive for projects with high aesthetic requirements.








# Glass-glass solar modules

Two glass panes are combined into one solar module. They become laminated safety glass and therefore have unique properties.

### Areas of application

The use ranges from facades and railings to roof-integrated and rooftop applications.

### Properties

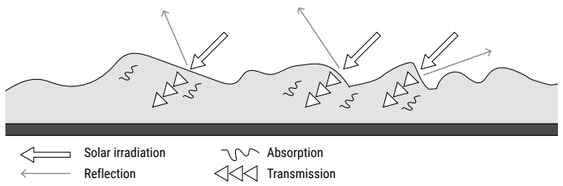
Front and back glass in combination with durable encapsulation material protect the components from vapour penetration. In the «neutral zone» between the panes, the cells remain stress-free (no compression or bending) which reduces the occurrence of so-called micro cracks. This results in a potential lifespan of over 50 years. Free design scope, high durability and stability characterise this solar building material. All glass-glass modules can be designed freely. Glass-glass modules are manufactured in Deitingen SO, Switzerland.

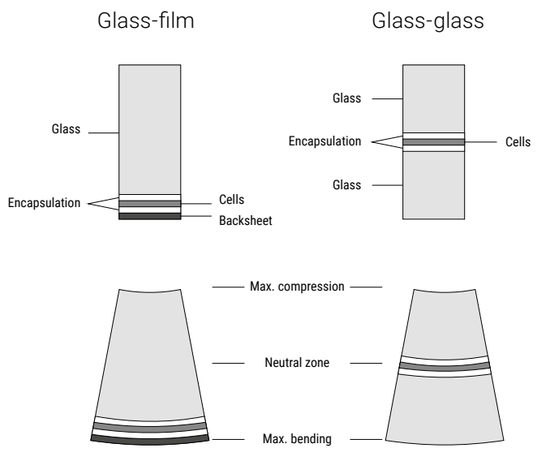
### Type of installation

Glass-glass solar modules can be installed both with or without frames. The mounting systems FAST, MATCH, LEVEL and NICER are especially suitable for the integration of glass-glass solar modules.

### Non-glare solar glass

Particularly anti-glare surface structures are used.




### Technical specifications

| |
|---|
| Cell technologies: Mono HiR / Mono PERC / Heterojunction |
| Cell sizes: 156.75 mm (M2) / 158.75 mm (G1) / 166 mm (M6) / 182 mm (M10) / 210 mm (G12) |
| Cell geometries: Full-square, Half-cut, Triple-cut, Custom |
| Typical power (Full Black)*: 205 Wp/m² |
| Typical power (colour)*: 150-195 Wp/m² |
| Encapsulation material: EVA or PVB |
| Glass thickness per pane: 2-12 mm |
| Hail resistance: Hail protection class 4 or 5 |
| Fire protection: Top and back layer are made of heat-resistant glass. The component is considered to be non-combustible material as defined by the Cantonal Fire Insurances. |

* The square-metre performance of the module depends on the specific format.

▲ Restaurant with roof-integrated LEVEL system on idyllic old building





# From costs to yields

Solar integrations are profitable investments. The reasons for this are, firstly, that the additional investments compared to conventional building envelopes represent a fraction of the total project costs. Secondly, solar building envelopes generate yields and amortise within a few years. In the period after that, they generate earnings and become profitable power plants. Two examples.

| Workshop with 10 employees | Office building with 20 employees |
|---|---|
| Location: Lausanne | Location: Zurich |
| Orientation: west | Orientation: east |
| System: NICER roof-integrated system | System: FAST facade system |
| Module type: glass-film, with frame | Module type: glass-glass, frameless |
| Colour: deep black | Colour: slate grey |
| Surface: 300 m² | Surface: 500 m² |
| Power: 52.8 kWp | Power: 75.0 kWp |
| Annual yield: 51'000 kWh | Annual yield: 40'000 kWh |
| Gross investment incl. VAT: CHF 108'000 | Gross investment incl. VAT: CHF 371'000 |
| Substitution conventional roof: CHF 23'000 | Substitution glass facade: CHF 297'000 |
| Net investment: CHF 85'000 | Net investment: CHF 74'000 |
| One-off grant[1]: CHF 19'552 | One-off grant[1]: CHF 27'100 |
| Return[2]: 6.2% | Return[2]: 11.5% |
| Break even: 15 years | Break even: 8 years |
| Profit over lifespan: CHF 111'000 | Profit over lifespan: CHF 231'000 |

**[1] One-off grant**

The one-off grant is a subsidy model for solar systems by the Swiss federal government. It covers around a third of the investment. Additional contributions from the buildings programme for energy-efficient renovation are not yet included.

**[2] Rate of return**

Yields and returns are project-specific and depend on factors such as irradiance values, project design and development of electricity prices. They take into account inflation, capital costs, discounting, tax benefits and reinvestments. Customized profitability studies can be provided upon request.

# **FAST** facade system

Substitution of all conventional facade elements
with the world's most efficient solar facade.

### Areas of application

FAST is suitable for all areas where curtain wall systems are used. This includes single-family houses, apartment buildings, high-rises, etc.

### How it works

The solar modules with backrails are placed into the horizontal profiles and folded up like a tilting window. They are fixed by a slide safety catch. Later dismantling is possible without restrictions.

### Flexibility

Glass-glass modules used on the facade are usually custom made. Their shape, colour, size and surface can be individually designed. Price advantages can be achieved when using the standard measurements.

### Compatibility

The FAST facade system is compatible with vertical structures in all standard materials (wood, aluminium, steel).

### System interface

The adhesion of the backrails on the rear side of the module takes place in-house.

### Type of installation

The mounting is concealed by means of backrails on the rear side.

### Installation time

10 m² / man-hour (experienced installation personnel)

### Components

> Glass-glass solar modules with SSG adhered backrails and mechanical support
> Horizontal rail, slide safety catch
> Vertical structure as well as consoles/spacer screws are often provided on site. If required, they are part of the package.

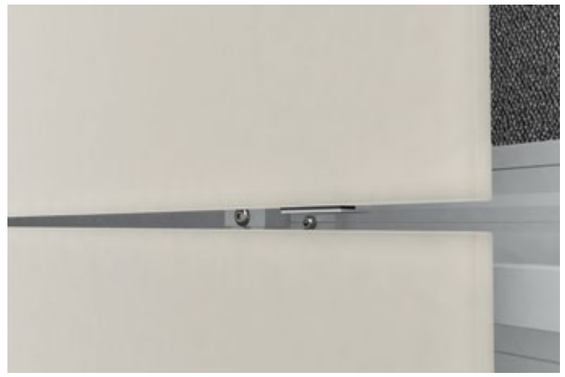
### Technical specifications

| |
|---|
| Solar module type: glass-glass (colours, shapes, thicknesses, surfaces can be freely defined) |
| Vertical adjustment: +/- 3 mm, on the front also possible after mounting |
| Typical span width of the horizontal profile: 800 mm |
| Fire protection: structure consists of aluminium. The component is considered to be non-combustible material as defined by the Cantonal Fire Insurances. |
| Vertical support: mechanical (lower edge of solar module) |

Video and technical documentation:
**megasol.ch/en/fast**

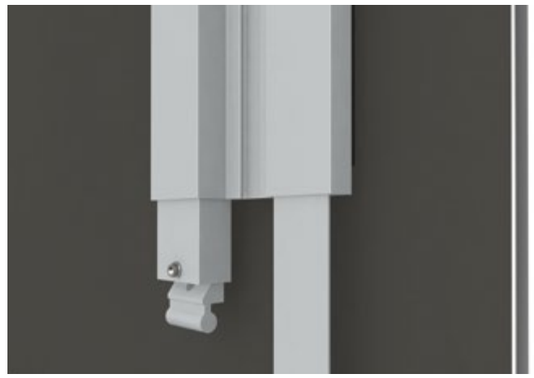
**1** Apply transverse profiles to the vertical structure of the building.

**2** Place module, inclination is possible for cabling.



**3** Secure module temporarily and adjust, +/- 3mm also possible after mounting.

**4** Secure module and place next module.



**Option:** Concealed mounting

**Option:** Lateral adjusting screws for concealed mounting

# **MATCH** Slate

Complete roof covering or in combination with shingle-like roof coverings.

## Areas of application

MATCH Slate is predestined for roof-integrated systems with high aesthetic demands – especially for projects where the design of the roof is based on a classic shingle look.

## How it works

The system is built on a conventional roof battening. The solar modules are fixed to the roof with discreet MATCH hooks and form a seamless transition to the roof edges, whereby no on-site metal sheeting work is required.
MATCH Slate can also be perfectly integrated into an existing shingle roof covering (e.g. aluminium composite panels, fibre cement, glass elements, etc.)

## Flexibility

Intelligently designed standard formats give the system a high degree of flexibility. Customer-specific sizes can be produced. The formats can be combined in any way in different installation layouts and thus give the roof an unmistakable character.

## Installation type and time

MATCH Slate is used just like classic roof shingles. The installation time is also based on this.

## Design

MATCH Slate is available with the standard designs Fjord Full Black, Creek Totally Black, Creek Brown and Creek Granite Grey.
Individual colours and glass surfaces can be freely designed according to SOLARCOLOR (solarcolor.ch)

## Components

> MATCH Slate module
> MATCH Slate hook and stopper
> *Anchoring device for personnel protection (optional)*

## Sub-roof requirements

> Roof pitch above 25°: sub-roof for normal demands
> 14° - 25°: for increased demands
> 6° - 13°: for extraordinary demands
> 3° - 5°: with flat roof quality

## Technical specifications

Solar module type: glass-glass modules

Fire protection: Top and back layer are made of heat-resistant glass. The component is considered to be non-combustible material as defined by the Cantonal Fire Insurances.

Rear ventilation: by means of wooden slats

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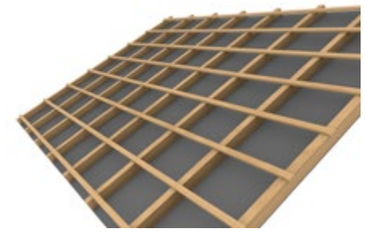
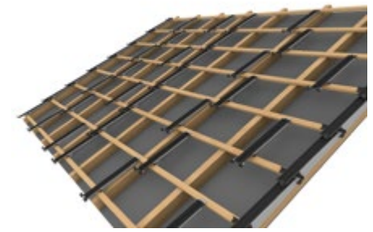
Video and technical documentation:
**megasol.ch/en/match/slate**

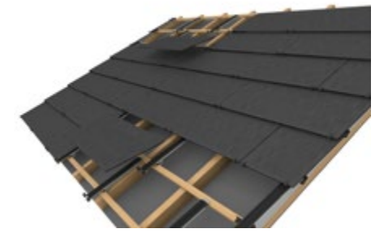




**1** Prepare roof battening.



**2** Install module hooks.



**3** Insert MATCH Slate modules.

## Module formats

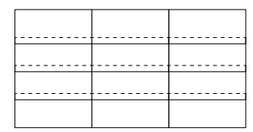
Cellular matrix: 2 x 2 cells
Grid dimensions: 407 x 380 mm

Cellular matrix: 2 x 6 cells
Grid dimensions: 1051 x 380 mm

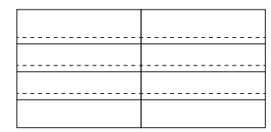
Cellular matrix: 2 x 10 cells
Grid dimensions: 1694 x 380 mm

## Examples of installation layouts

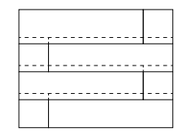
MATCH Slate can be freely combined with other individual installation layouts.



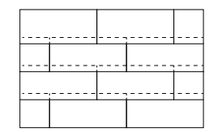
Normal 2 x 6



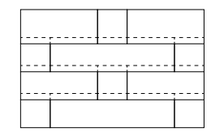
Normal 2 x 10



Offset 2 x 10 with 2 x 2



Offset 2 x 6 & 2 x 2



Combo 2 x 6 & 2 x 2 / 2 x 10

## Standard designs

Fjord Full Black

Creek Totally Black

Creek Granite Grey

Creek Brown

## Overhanging verge

Complete integration without sheet metal work

# **MATCH** Tile

Solar roof covering in combination with roof tiles.

## Areas of application

MATCH Tile is predestined for roof-integrated systems with high aesthetic demands – especially for projects where the design of the roof is based on a classic tile look.

## How it works

The system is built on a conventional roof battening. The solar modules are fixed to the roof with discreet MATCH hooks and form a seamless transition to the roof tiles, whereby no on-site metal sheeting work is required.

## Compatibility

MATCH Tile is compatible with the following roof tiles:
> ZZ Wancor Plano & Swiss TL
> Nelskamp G10
> Erlus Scala
> AGZ GS37
> Jacobi Walther Z10
> Creaton Cantus
> Gasser FS03 & MS95

*(other manufacturers/tiles on request)*

## Installation type and time

MATCH Tile is used just like classic roof tiles. The installation time is also based on this.

## Design

MATCH Tile is available with the standard designs Fjord Full Black, Fjord Brown, Fjord Grey and Fjord Terracotta. Individual colours and glass surfaces can be freely designed according to SOLARCOLOR (solarcolor.ch)

## Components

> MATCH Tile module
> MATCH Tile hook

## Sub-roof requirements

> Roof pitch above 25°: sub-roof for normal demands
> 14° - 25°: for increased demands
> 6° - 13°: for extraordinary demands
> 3° - 5°: with flat roof quality

## Technical specifications

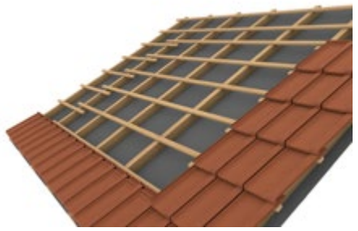
Solar module type: glass-glass modules

Fire protection: Top and back layer are made of heat-resistant glass. The component is considered to be non-combustible material as defined by the Cantonal Fire Insurances.

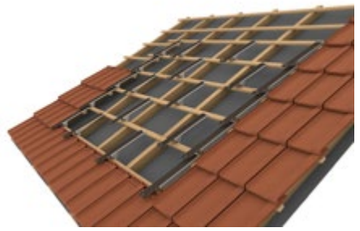
Rear ventilation: by means of wooden slats

Video and technical documentation:
**megasol.ch/en/match/tile**





**1** Prepare roof battening.

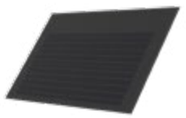


**2** Install module hooks.

**3** Insert MATCH Tile modules.

## Module formats

Cellular matrix: 2 x 2 cells
Grid dimensions: 446 x 380 mm
(Module type **A2**, replaces 2 tiles)



Cellular matrix: 2 x 4 cells
Grid dimensions: 765 x 380 mm
(Module type **B3**, replaces 3 tiles)

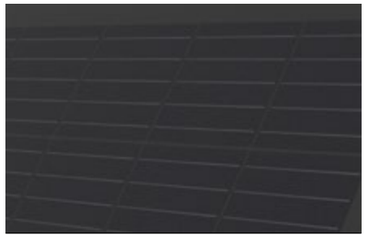
Cellular matrix: 2 x 7 cells
Grid dimensions: 1230 x 380 mm
(Module type **C5**, replaces 5 tiles)

Cellular matrix: 2 x 5 cells
Grid dimensions: 892 x 380 mm
(Module type **A4**, replaces 4 tiles)

Cellular matrix: 2 x 9 cells
Grid dimensions: 1530 x 380 mm
(Module type **B6**, replaces 6 tiles)

Cellular matrix: 2 x 6 cells
Grid dimensions: 1060 x 380 mm
(Module type **D5/E4**, replaces 5/4 tiles)

## Standard designs



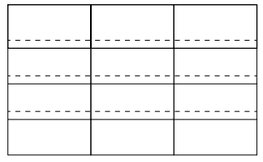
Fjord Full Black

Fjord Brown

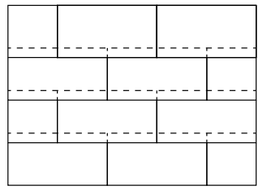
Fjord Grey

Fjord Terracotta

## Installation layouts



Normal



Offset

# **LEVEL** roof-integrated system

Overlapping solar roofing for full-surface coverage.

## Areas of application

LEVEL is used for pitched roofs, challenging roof geometries, individual roof integrations, as well as facades.

## How it works

The holding hooks are screwed onto the roof battens. The sealing rails are fitted onto them. The solar modules are laid in. Later dismantling is possible without restrictions.

## Flexibility

Half and quarter modules with identical appearance are among the standard components of the system. The basic palette contains three colour versions. More complex design requirements (colour, surface) can be realised with individually designed solar modules.

## Compatibility

The LEVEL roof-integrated system can easily be combined with all standard roof coverings such as roof tiles, shingles or aluminium composite panels. A skylight (Wenger Fenster) specially developed for the LEVEL roof-integrated system enables seamless integration. LEVEL can be equipped with an integrated snow guard.

## Type of installation

The system is laid overlapping, using the conventional or English method (horizontal offset).

## Installation time

10 m² / man-hour (experienced installation personnel)

## Components

> LEVEL solar modules
> Holding hooks
> Sealing rails
> *Snow guard (optional)*
> *Wenger skylight (optional)*
> *Anchoring devices for personal protection (optional)*

## Sub-roof requirements

> Roof pitch above 25°: sub-roof for normal demands
> 14° - 25°: sub-roof for increased demands
> 6° - 13°: sub-roof for extraordinary demands
> 3° - 5°: sub-roof with flat roof quality

## Technical specifications

Solar module type: frameless glass-glass modules

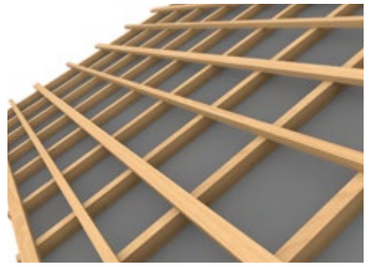
Grid dimensions: 1016 x 1700 mm

Fire protection: Top and back layer are made of heat-resistant glass. The component is considered to be non-combustible material as defined by the Cantonal Fire Insurances.

Rear ventilation: by means of wooden slats

Video and technical documentation:
**megasol.ch/en/level**

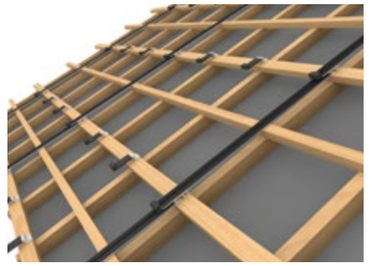




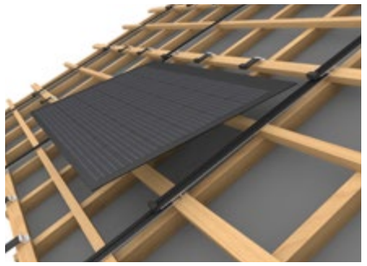
**1** Roof battens 80 x 40 and 50 x 50 are fitted alternately in the grid.

**2** The rail hooks are mounted directly on the roof battens.

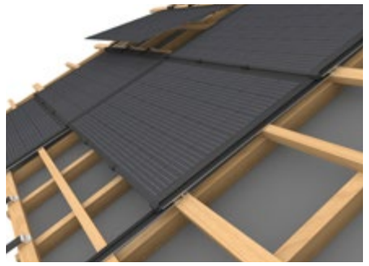
**3** The support rails can be pushed easily into the rail hooks.



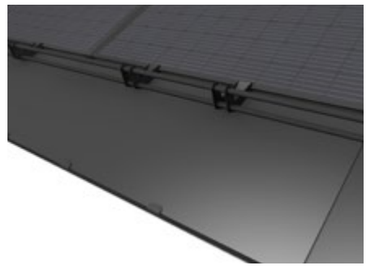
**4** Central hooks provide additional stability.



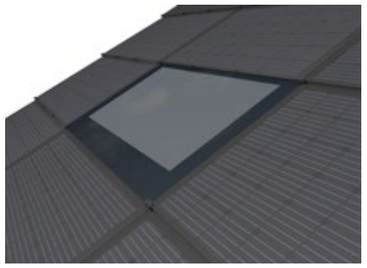
**5** The solar modules can be pushed up from below and laid in.



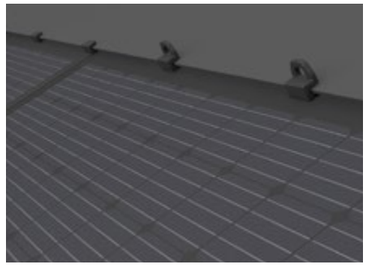
**6** The solar tile system allows individual layouts.



**Option:** Snow guard

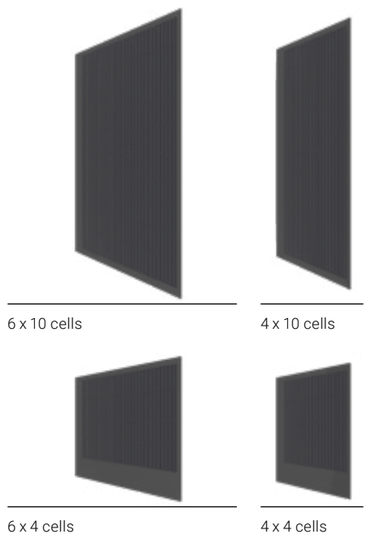


**Option:** Skylight



**Option:** Anchoring devices for personal protection

### Basic modules



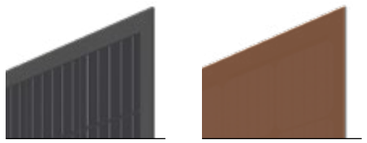
6 x 10 cells

4 x 10 cells

6 x 4 cells

4 x 4 cells

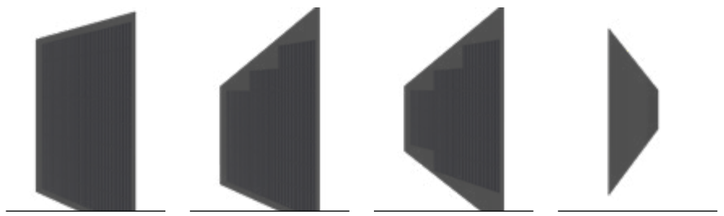
### Colour variations



Full Black

Terracotta

### Special solar modules



Category 1
Complexity: low
*Adapted module length*

Category 2
Complexity: medium
*One side slanted, or adapted module height*

Category 3
Complexity: high
*Various modifications, two sides slanted, cut-outs, round shapes, holes*

Category 4
Electrically passive
Complexity: high

# **NICER** roof-integrated system

Flush-mounted solar roofing with highest cost efficiency.

## Areas of application

Typical areas of use for NICER are pitched roofs, roofings of any kind, wood and steel constructions. The most frequently used roof-integrated system in Switzerland is especially suitable for flat inclinations up to 3°.

## How it works

Vertical supports are applied to the roofing battens. The modules are placed into the vertical supports and closed similarly to a car boot door. The modules are fixed with a snap lock. Later dismantling is possible without restrictions.

## Flexibility

NICER solar modules are available as black, white and translucent versions. Half and quarter modules with a comparable appearance are among the standard components of the system. Translucent NICER systems are particularly suitable for carports, hangars, stadium roofs or pergolas and provide targeted shading and sun protection with simultaneous use of residual light.

## Compatibility

A skylight (Wenger Fenster) specially developed for the NICER roof-integrated system enables seamless integration. NICER can be equipped with an integrated snow guard.

Video and technical documentation:
**megasol.ch/en/nicer**

## Type of installation

NICER modules are installed flush-mounted and floating (horizontally and vertically).

## Installation time

20 m² / man-hour (experienced installation personnel)

## Components

> NICER solar modules
> Vertical rail
> Roof ridge profile
> Covering panel and ventilation grid
> *Snow guard (optional)*
> *Wenger skylight (optional)*

## Sub-roof requirements

Canopy, carport, open warehouse, etc.
(buildings that do not have to be completely water-proof in practice)
> No sub-roof necessary

Residential buildings, office buildings, closed halls, etc.
> Roof pitch above 13°: sub-roof for normal demands
> 7° - 13°: sub-roof for increased demands
> 3° - 6°: sub-roof for extraordinary demands
> 0° - 3°: sub-roof with flat roof quality

Rail extensions and special modules can affect impermeability and must be verified individually.

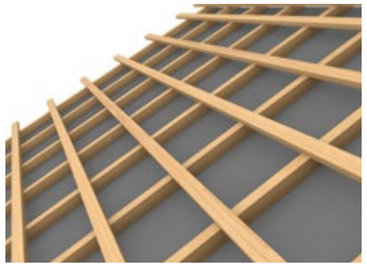
## Technical specifications

Solar module type: glass-film or glass-glass modules with frame

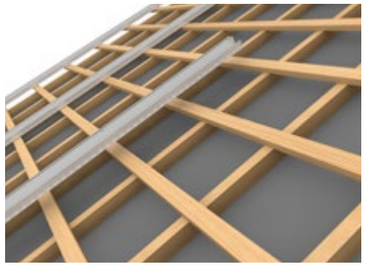
Grid dimensions: 1016 x 1676 mm

Fire protection: Top layer is made of heat-resistant glass. The component is considered to be non-combustible material as defined by the Cantonal Fire Insurances.



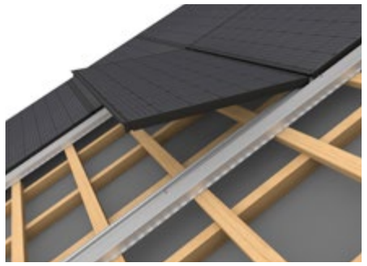


**1** A steel or wood construction serves as the basis.



**2** The NICER rails are laid out and screwed onto the roof battens.

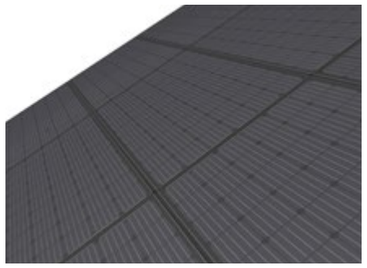
**3** The roof ridge profiles are then installed.



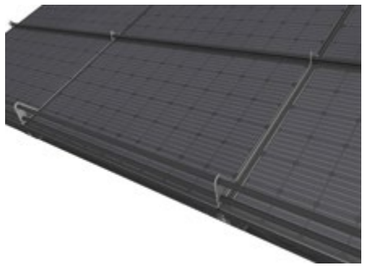
**4** The individual solar modules can simply be clicked in...

**5** ... and fastened.

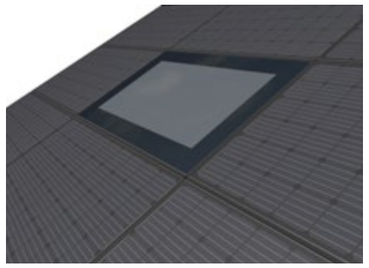
**6** Install the covering plate and ventilation grid.



**7** Completely installed, NICER is a water-proof roof covering.

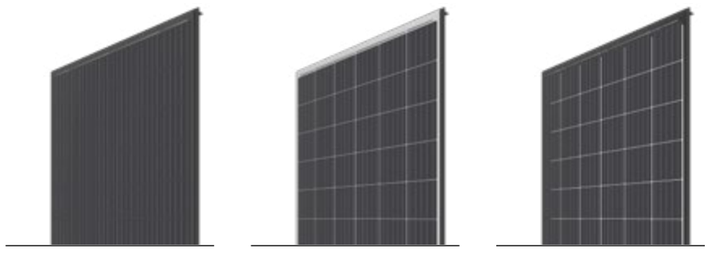


**Option:** Snow guard



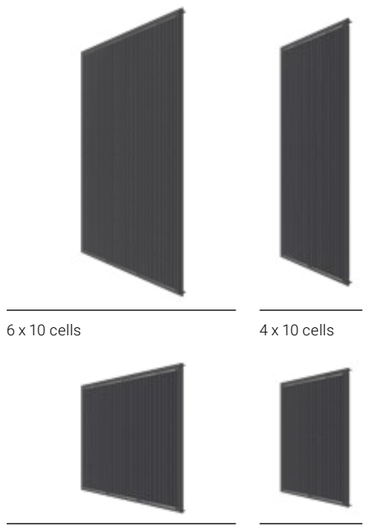
**Option:** Skylight

Colour variations



Black White Translucent

Basic modules



6 x 10 cells 4 x 10 cells

6 x 5 cells 4 x 5 cells


▲ Schlössli Wohlen | Cultural monument | LEVEL roof-integrated system with customized modules



# Expert consultation

Solar projects involve specific topics that required specific attention. A road map from the vision to implementation can contain the following milestones:

1 **Gaining a shared understanding**

The focus is on the vision and the planned appearance of the overall project. The first technical approaches are outlined. Preferences regarding interfaces and consultation services are discussed.

2 **In-depth introduction**

The doors of Megasol are open for partners. A production tour in Deitingen shows how the company works and where the integrated solar modules come from.

3 **Rough concept**

Guiding ideas flow into a rough concept and are formalized as system principles. It is possible to make substantiated statements about investment and profitability. The first samples follow.

4 **Detailed concept**

The design and the systems are worked out in detail and specified. Developments and formalities are carried out. Further samples follow and are approved.

5 **Implementation**

The solar modules are manufactured according to the agreed plans and designs. Support is ensured during the building phase and operation.

**Services**

**Project support:**
> Consulting / training
> Detailed design options
> Grid layout
> Connection details / interfaces
> String / inverter dimensioning
> After Sales

**Formalities:**
> EIV, ESTI, EEA

**Development:**
> Design / colour
> Samples / mock-ups
> Customized mounting solutions
> Integration of storage solutions, energy management, charging infrastructure for e-mobility

# Values as a solid foundation

Responsible actions form the cornerstone of our company. The aim is to create opportunities for others and therefore give back some of the success.

## Society

### Social commitment

Megasol is committed to ecological and social sustainability projects in economically disadvantaged regions – for example Solafrica's *Solar Learning* initiative and the Women's Solar Project Nicaragua. The commitment includes material supplies for specific projects or financial support, which benefit local vocational training and build up competent young talent in the solar sector.

### Manufacturing and research site

Forward-looking and regular investments in the production site in Deitingen as well as close cooperations with universities and technology partners set the relevant signals and help to strengthen Switzerland as a centre of research and industry.

### Corporate culture

The corporate culture is based on a high degree of trust in the employees. Room for creativity and self-responsibility are the sources of its innovative strength and the continual development of the company. In China, the remuneration exceeds the local standard in terms of benefit-oriented promotion. All employees are provided with further training and language courses. The implementation of Swiss safety and health standards at both sites is a question of entrepreneurial conscience.

## Environment

### Material and manufacturing

From the sourcing of raw materials to the completed solar module, manufacturing exclusively uses renewable energies. In Deitingen SO, the electricity necessary for the production is produced on site by means of a solar plant. The applied high-performance solar cells consist of high-purity silicon – free of cadmium, rare earths and heavy metals.

### Recycling

The involvement with the Swiss foundation SENS and the European PV Cycle enables the reuse of almost 100% of the used material.

### Electromobility

An own fleet of electric vehicles and free solar charging stations at the Deitingen production site reinforces the investment in future-orientated environmental technologies.

## Quality

### Certifications

The manufacturing processes are TÜV-tested and run in accordance with EN/IEC and ANSI/UL standards.

### Traceability

Based on the individual serial number, all materials used for each solar module can be traced back to the raw material batch without any gaps.

### Testing steps

Each individual solar module undergoes a multitude of test steps. These include electroluminescence tests, flash tests and visual controls. The company has its own test centre. Tests such as Damp Heat, Shockfreeze, UV Lifetime, Dynamic Load and Thermocycle ensure the durability of the solar modules.

### Top Brand PV

Every year, the market research institute EUPD Research identifies the most successful and strongest brands on the PV market. For the installers surveyed, Megasol ranks consistently among the most popular module manufacturers.

Megasol is an award-winning company. Many Swiss and European solar prizes and architectural awards testify to the trust that is placed in Megasol.

## Politics

### Involvement

Despite enormous potential, photovoltaics require strong voices in politics. Through memberships in industry associations and interest groups, Megasol is involved in sustainable progress. The focus in everyday life is on concrete steps: appearances at conferences, provision of comprehensive information material for voting and guided tours for schools and political parties – also for those who are traditionally critical of environmental issues.

# Vision and vigour

## Founder

Markus Gisler founded Megasol in 1993 in his youth. He directs the company as CEO and president of the administrative board. His vision led to the organic and continual development of Megasol Energy Ltd. The vision remains the driving force in everyday company life.

Markus Gisler, Founder and CEO

## Vision

Solar modules by Megasol are intended as design material from which structures and pictures can be created. The integration of solar technology not only into buildings, but also into the living environment and consciousness of people, is the maxim.

## Locations

The company consistently focuses on two locations. Development, administration and production are anchored in Deitingen SO, Switzerland. With a strong focus on customer proximity, individual design requirements can be met. Our factory in Ningbo, China, is specialized in large series and standard solutions.

## Partnerships

The company has a wide network of architects, planning offices, investors, installers and operators. The company also fosters close partnerships with universities and both national and international research institutes.

▲ Residential tower Wattbuck in Effretikon | Complete renovation of the building skin

Image: Aragorn Frey, arento ag

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▼ Cleantech Businesspark in Deitingen