SUN APPEAL
in collaboration with:

SUPSI
sponsored by:

SKALA, ONYX SOLAR, 3S SWISS SOLAR SOLUTIONS, SOLSKIN



15–21
/04

BUILDING WITH THE SUN

SOLAR PAVILION
@OPIFICIO 31
MILANO DESIGN WEEK

BUILDING WITH THE SUN:
Solar Pavilion

Organised by Sun Appeal
in collaboration with SUPSI

Sponsored by:
Skala, Onyx Solar, 3S Swiss Solar Solutions, Solskin
Media partner:
Archi

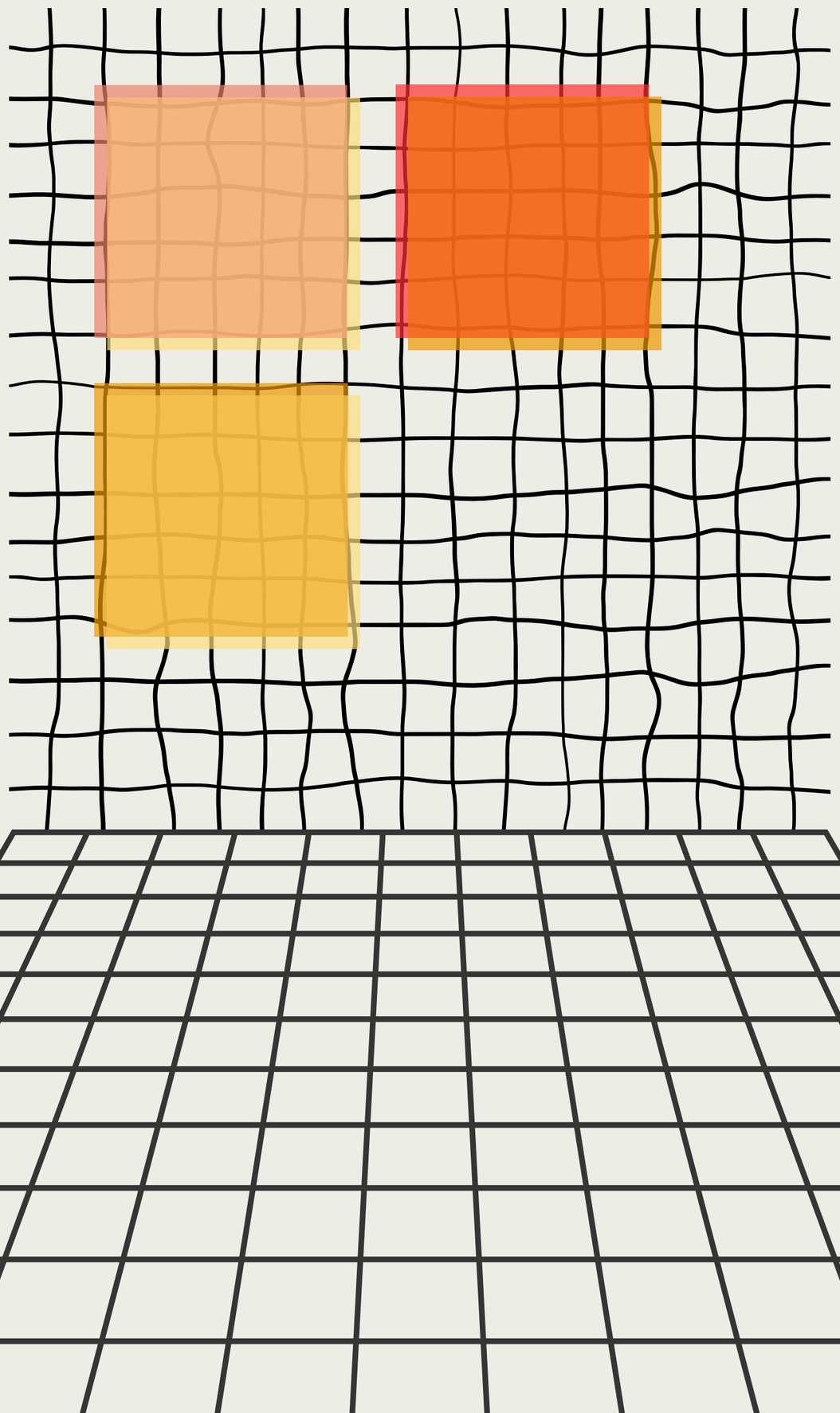
Management, planning and organisation:
Paolo Corti (Sun Appeal)
Artistic direction, planning, graphics and design:
Greta Battaglia (SUPSI)
Scientific curator and general supervisor:
Pierluigi Bonomo (SUPSI)
Concept:
Greta Battaglia, Pierluigi Bonomo, Paolo Corti

with the contribution of:
Francesco Frontini and Pierluigi Bonomo (ISAAC-SUPSI), Giulio Magli and Marco Borsotti (Polytechnic of Milan), Flaviano Capriotti Architetti, deltaZERO architetti, Institute of Design (IDe-SUPSI), Fablab SUPSI

CONCEPT

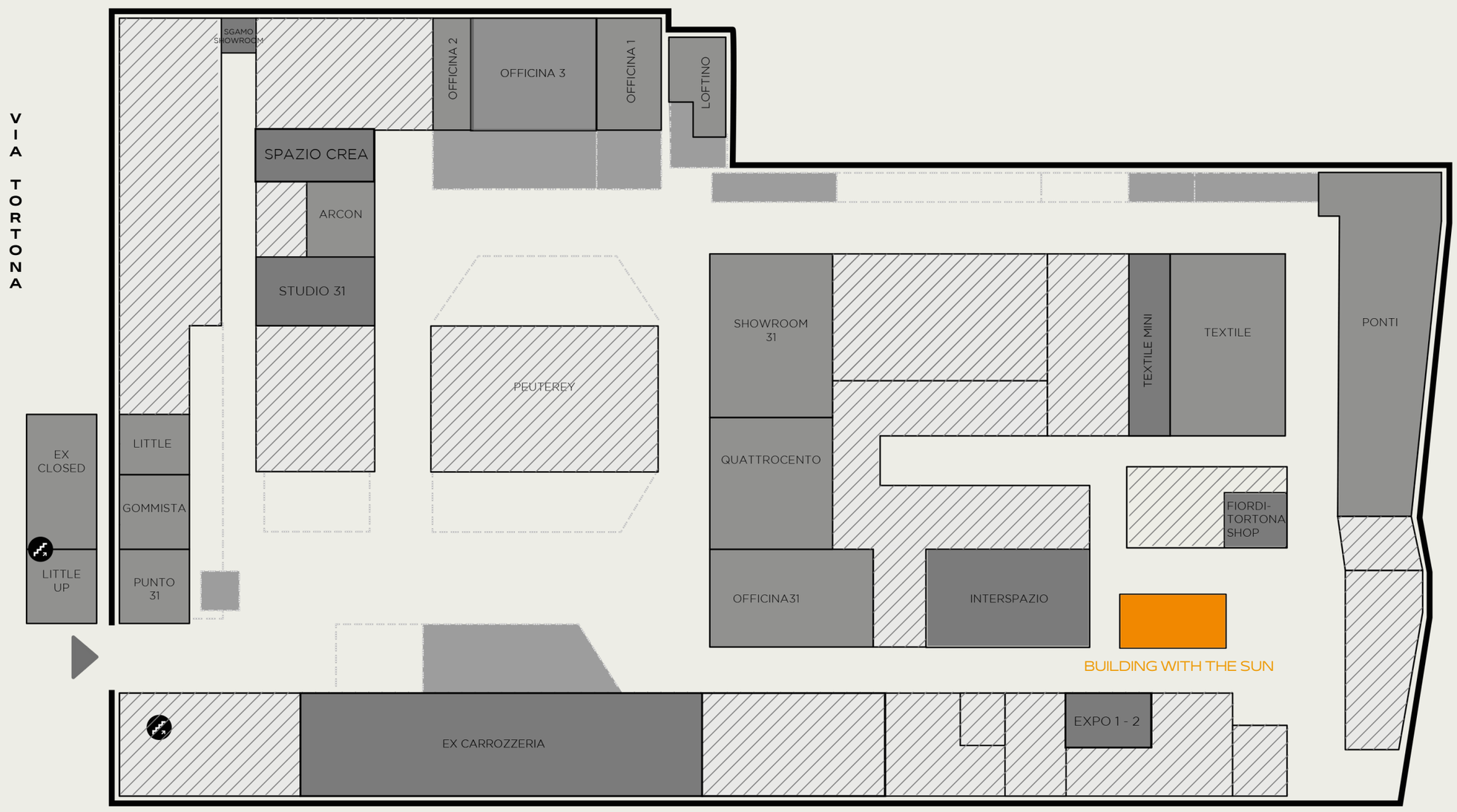
WE DREAM OF AND WORK FOR A DEEP BEAUTY. SHAPING NEW BOUNDARIES BETWEEN SUSTAINABILITY AND ARCHITECTURE.

“Building with the sun”, the solar pavilion designed by Sun Appeal in collaboration with SUPSI, aspires to present the potential of solar energy design, transforming solar panels from praxis to poetry. In the age of sustainability, we open a dialogue across tradition and innovation, nature and technology. Photovoltaics used as “right-tech”, inspired by technology and design, is the chase of new beauty. By showcasing the revolutionary solar products Skala (distributed in Italy by Sogimi), Onyx Solar, Solskin and 3S Swiss Solar Solutions, the space is a seed inspiring creativity to transform our cities. We see no conflict between technology and architecture but only an intimate relationship, the key for a future that is beautiful for our eyes and souls.



OPIFICIO 31

Located in a strategic position in the Tortona area, Opificio 31 is a large area where activities once flourished (some of which are still active). The complex is located in a large courtyard, in the beating heart of the new Tortona area, close to MUDEC (Museum of Cultures) and the BASE cultural hub and a few steps from PHYD, flat-form Adecco and Microsoft, the Armani Silos and Superstudio Più, the new head- quarter of Luxottica and the design Hotel Nhow.



SOLAR PAVILION

Via Tortona, 31, 20144 Milano MI, Italia

EVENTS

MON 15

G. MAGLI & F. FRONTINI — h.18-19

Dai templi egizi al Pantheon: il ruolo del sole nell'architettura antica (ITA)

Gli ultimi 40 anni di evoluzione del fotovoltaico (ITA)

discover more & register here

TUE 16

SKALA — h.11-12

Progettare con Skala: l'avanguardia delle facciate solari (ITA+ENG)

discover more & register here

DELTAZERO ARCHITETTI — h.18-19

BIPV - Edifici a +energia: principi e realizzazioni (ITA)

discover more & register here

WED 17

3S — h. 11-12

Soluzione tetto solare 3S: design e sostenibilità Swiss made (ITA)

discover more & register here

SKALA — h.17-18

Progettare con Skala: l'avanguardia delle facciate solari (ITA)

discover more & register here

THU 18

SOLSKIN — h. 11-12

Solskin: the moving future of sustainable architecture (ENG)

discover more & register here

SOLSKIN & FLAVIANO CAPRIOTTI ARCHITETTI — h.17-18

Solskin: the moving future of sustainable architecture (ENG)

Following the Sun: Franklin University Switzerland, a dynamic integrated photovoltaics experience (ENG)

discover more & register here

FRI 19

ONYX SOLAR — h. 11-12 h.17-18

Onyx Solar: energy independence, building excellence (ENG)

discover more & register here

SAT 20

M. BORSOTTI & P. BONOMO — h.17-18

L'architettura è luce, penombra, ombra, talvolta buio (ITA)

Dalla funzione alla bellezza: l'arte dei pannelli solari in architettura (ITA)

discover more & register here

● public event (SUGGESTED REGISTRATION)

● private event (MANDATORY REGISTRATION)

MEET&GREET

TALK WITH OUR SPONSORS!

Get inspired by the leading companies in the world of solar architecture.

- **SUN APPEAL** *book here*
- **SUPSI** *book here*
- **SKALA** *book here*
- **SOLSKIN** *book here*
- **ONYX SOLAR** *book here*
- **3S** *book here*





Via Ra Strada Dar Tramin 44,
6953 Lugaggia
Switzerland

info@sunappeal.ch
+41 782 33 25 04

SUN APPEAL

We support decision making for promoting system planning ad realization of solar buildings by focusing on specific BIPV propositions, joining building and solar values. Early-stage scenario analysis, integrated investment strategies and techno-economic feasibility alternatives for clients. Strategic advisory in pre-design stage to solve customers uncertainty and bottlenecks by offering simple and integrated value propositions of techno-economic feasibility for solar buildings. Cost and risk reduction, portfolio valorization on ongoing projects to ensure high-quality and success of BIPV on the market.
We consider it crucial to leverage on a consolidated national and international network to facilitate an integrated process, put in action a strong value chain based on construction quality, to develop both real projects and promote networking and workshop opportunities.

https://sunappeal.ch

Via Flora Ruchat-Roncati 15,
6850 Mendrisio
Switzerland

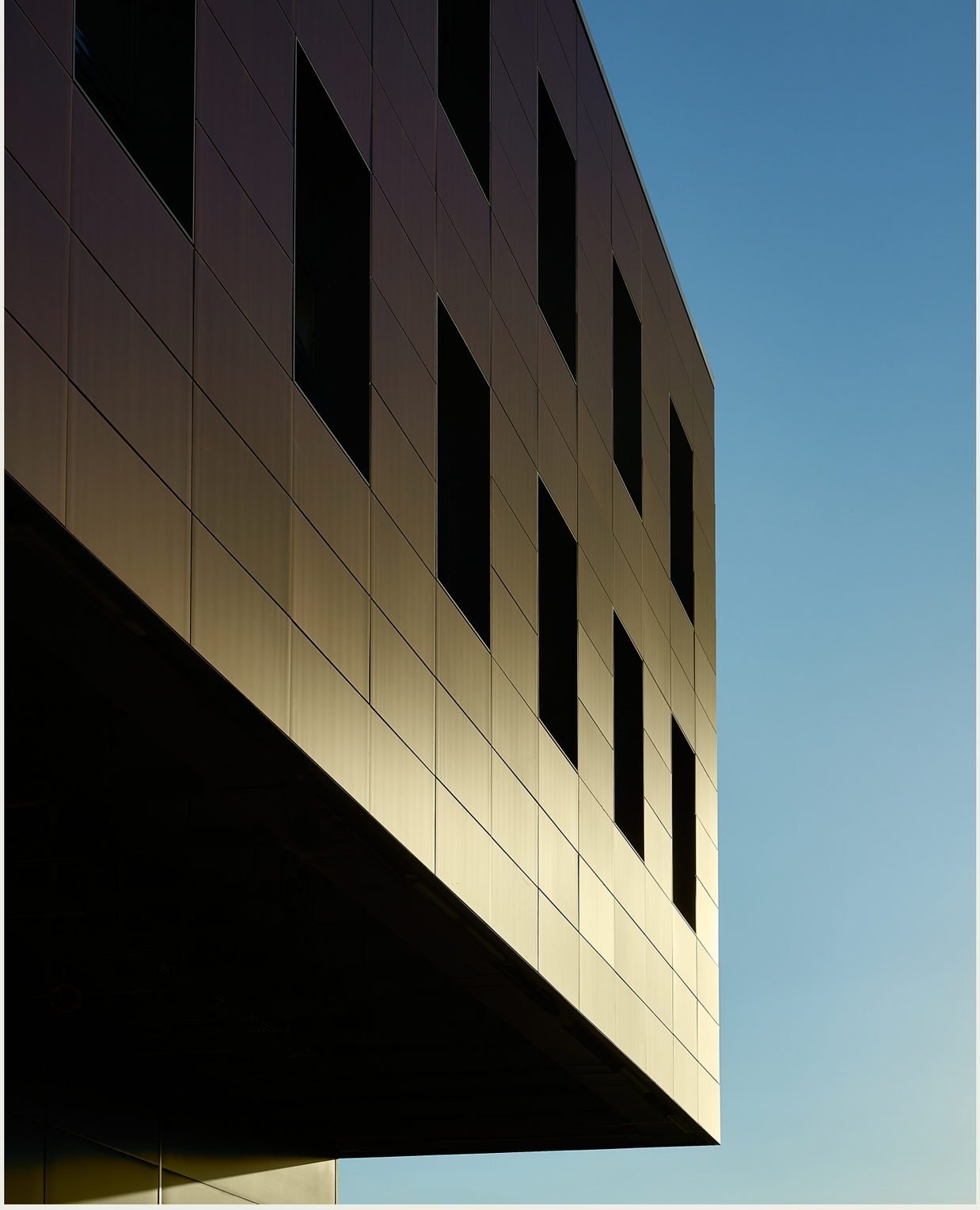
pierluigi.bonomo@supsi.ch
+41 (0)58 666 62 75



SUPSI_BIPV TEAM (ISAAC)

The concept of "Building with the sun" seeks to demonstrate the transformative power of solar energy design, lifting solar panels beyond their utilitarian role to poetic expression. SUPSI fosters conversations that bridge design, research and industry. The BIPV research team at SUPSI focuses on pioneering active solar envelopes known as Building Integrated Photovoltaics (BIPV). The team specializes in applied research dedicated to developing, testing, and introducing new multifunctional products for solar architecture. Collaborating with industries, architects, and authorities, the group engages in Swissand international initiatives encompassing R&D, pilot projects, training, and communication.

https://www.supsi.ch/isaac - www.solarchitecture.ch



Via dei Castelli Romani 52,
00071 Pomezia
Italy

info@sogimi.com
+39 06 72643 1

SKALA_SOGIMI SPA

Sogimi Group has long been at the forefront of revolutionizing the architectural landscape, particularly in the field of ventilated facades. Since the 1980s, it introduced Alucobond®, a benchmark in cladding technology, to the Italian market. Over time, it has expanded its offerings with the HPL panels Trespa® Meteon.
In 2021, Sogimi once again contributed to the evolution of building envelopes with SKALA®, a photovoltaic opaque glass panel specifically designed for facades. By seamlessly integrating SKALA into ventilated facades, it is now possible to achieve a synergy of active and passive efficiency, harnessing the latest technological advancements to transform buildings into self-sustaining energy sources.

https://www.sogimi.com

On Australia's pioneering solar facade, a harmonious blend of transparent window surfaces and opaque solar modules, specifically the light grey SKALA modules, has been ingeniously combined.
Each element of the facade has been strategically oriented to optimize solar radiation absorption.
This groundbreaking project was completed in 2023 in Melbourne, as an example of innovative architectural design and sustainable energy integration.
Covering an area of 1,203 square meters, the installation boasts a total of 1,220 modules,
collectively generating a plant power of 146 kWp. The choice of SKALA Light Grey modules not only enhances the aesthetic appeal but also maximises energy efficiency.
Beyond its functional benefits, this solar facade represents a paradigm shift in architectural innovation, demonstrating how sustainable design can seamlessly merge with aesthetic excellence.



https://www.sogimi.com

Calle Rio Cea 1, 46,
05004 Ávila
Spain

info@onyxsolar.com
+34 920 210050



ONYX SOLAR

As Onyx Solar, we are proud to be the world leader in the design and manufacture of architectural, photovoltaic glass for buildings. Our journey from the early stages of research and prototyping to the final stages of product design, manufacturing, and customer validation has been a testament to our commitment to innovation and excellence. Today, our cutting-edge products are installed in over 500 projects worldwide. Our team of architects, engineers, physicists, among other specialists, work closely with our clients in all steps of the project to design and build a smart PV solar solution integrated in buildings. Onyx Solar is committed to delivering high-quality products only, which meet international standards, codes and safety guidelines.

https://onyxsolar.com

Continuing one of the largest urban regeneration efforts in Europe, Milano Porta Nuova, Gioia 22 is a landmark office 121-meter tower in Milan's business district. As Italy's first nearly net-zero building, Gioia 22 advances fresh perspectives and progress in a city known for its innovative spirit. Developed by COIMA and designed by Pelli Clark Architects, Gioia 22 exceeds Milan's energy regulations by 15 percent, using on site renewable energy sources including 6,000 m2 of Onyx Solar crystalline PV glass units installed on the façade, which generate 65 percent of the energy required for building's heating and cooling.

The façade solar PV system, which counts with around 800 kWp installed power, was developed together with Permasteelisa, a leading global contractor of architectural envelopes responsible of some the most iconic façades of the world.

Final PV glass take-off in this project counts on 145 different sizes having main typical dimension: 1441 x 2933 mm. The project counts also with some finishing units with trapezoidal dimensions. The PV glass configuration is 6T + 6T mm laminated tempered glass. The façade is built with a unitized curtain wall system with combination of vision and spandrel areas where the PV glass in integrated in the opaque spandrel areas.

A High-level construction project needs a PV glass manufacturing and supply with the highest quality control in production in order to achieve PV architectural glass beyond the typical architectural glass quality. A dedicated quality control plan was developed to track and control, not only the production of the PV glass but the main PV glass materials of our suppliers. The result is the delivery of a value and durable product that meets the request for such buildings, and provides our customers with a unique material for green building excellence

https://onyxsolar.com





Technoparkstrasse 1,
8005 Zurich
Switzerland

info@zsr.swiss

SOLSKIN

The Swiss climate-tech startup Zurich Soft Robotics, develops Solskin, a moving building skin that combines intelligent shading and PV energy generation. It optimizes the building energy management and occupants' comfort by regulating solar gains. Designed by scientists and architects, Solskin makes buildings sustainable and comfortable.

Solskin is a unique and elegant combination of intelligent shading and highly efficient PV power generation due to solar tracking. Solskin AI can save up to 80% of climatisation energy, while at the same time improving occupants' comfort.
In light of urgent actions towards climate neutrality, developers seek strategies to integrate PV in an architecturally pleasing way for which Solskin is a perfect solution.

https://www.solskin.swiss/

NEST (Next Evolution in Sustainable Building Technologies) is the modular research and innovation building of the two Swiss research institutions Empa and Eawag and is located on the Empa campus in Dübendorf. The NEST platform closes the gap between the research laboratory and the market and allows new sustainable solutions to find applications in the construction industry. The unit HiLo on the top of the NEST building demonstrates how attractive architecture can be when combining energy- and resource-saving construction and operation.

This unit has an office with a fully glazed façade with Solskin (previously called Adaptive Solar Façade) with 30 thin-film PV panels. The panels are constantly optimizing their position to either maximize the PV output or to adapt to the occupants' needs. This version of the Solskin façade has an individual panel control system where different functions can be selected, such as move to East, move to West, open, close, and auto mode.



https://www.solskin.swiss/

Schorenstrasse 39,
3645 Gwatt
Switzerland

info@3s-solar.swiss
+41 33 224 25 00



3 S

3S Swiss Solar Solutions develops and produces building products that generate energy. The solar modules are not mounted on the roof, but rather integrated directly into the building envelope - the roof, the facade or the balcony parapet. The modules are available in different dimensions, can be used in a variety of ways and are available in different colors. They are therefore bricks, balcony railings or facade elements - and as such they also produce electricity.
The 3S solar modules are developed and manufactured in Switzerland. CO2-neutral and in compliance with Swiss environmental regulations. With 3S products we combine pioneering spirit, modern aesthetics, 100% Swissness and ecological responsibility. This makes us unique.

https://www.3s-solar.swiss/

Of shiny red and scented wood, with an elegant roof equipped with a solar system and lots of space immersed in a wonderful landscape: anyone who sees the new kindergarten in Einigen would immediately want to go back to being a child to spend time there. An exemplary model of a sustainable school building capable of producing energy independently.
The real highlight from an energy perspective is 3S's large 28 kW solar roof facing east and west. The MegaSlate system simultaneously functions as a solar power plant and roof covering. “The design was incredibly simple,” recalls Beat J. Fischer. “The product is great and 3S was always there for us when we had questions.” HMS architects install solar modules whenever they can. But they don't always have the possibility to integrate the systems into the building as well as they did here in Einigen.



https://www.3s-solar.swiss/

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SOLAR PAVILION