

SKALA



THE AVANTGARDE OF SOLAR FAÇADES

STB INNOVATIVE CONSTRUCTION

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ENGLISH

AVANCIS  CNBM

SKALA

STATE-OF-THE-ART- SOLAR FAÇADES

From inspiration to diversity:

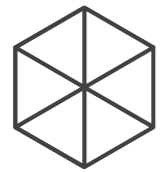
SKALA is a thin-film PV module operating as a solar active building material to set totally new standards of aesthetic solar façade solutions – no matter what type of building or construction project.



SKALA - THE ARCHITECTURAL MODULE BY AVANCIS

The product platform SKALA is the solar façade materials group for office and commercial properties and infrastructure facilities. The engineering base is an aesthetic thin-film PV module developed for the building industry. SKALA is unique – in terms of design, energy efficiency, performance, quality and product safety.

SKALA is a multi-functional building material which generates solar energy. Architects, façade planners and investors are given the possibility to realize individually designed solar façades with the highest aesthetics and highest energy output at the same time.



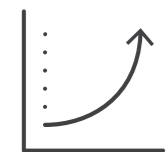
DESIGN

The design of the module is pure aesthetics: frameless without visible fixing with a homogeneous glass surface in different colors.



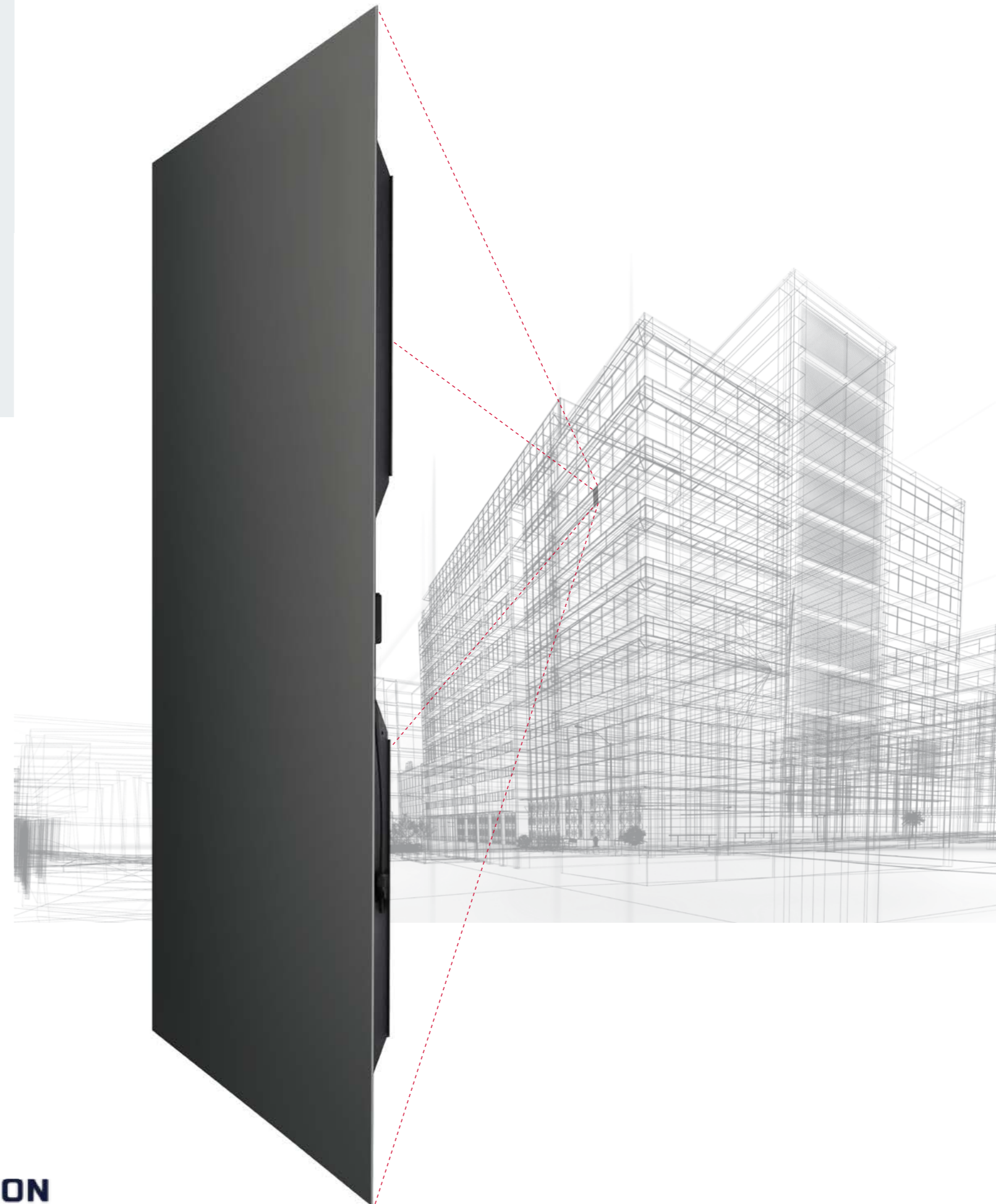
QUALITY

SKALA is developed and produced in Germany. Certified to ISO, IEC and abZ (German general building approval), SKALA offers the highest quality and safety standards in the PV and construction industry.



EFFICIENCY

SKALA transfers passive building envelopes into power generating façades and actively contributes to the energy balance of buildings – even under unfavorable weather and site conditions.



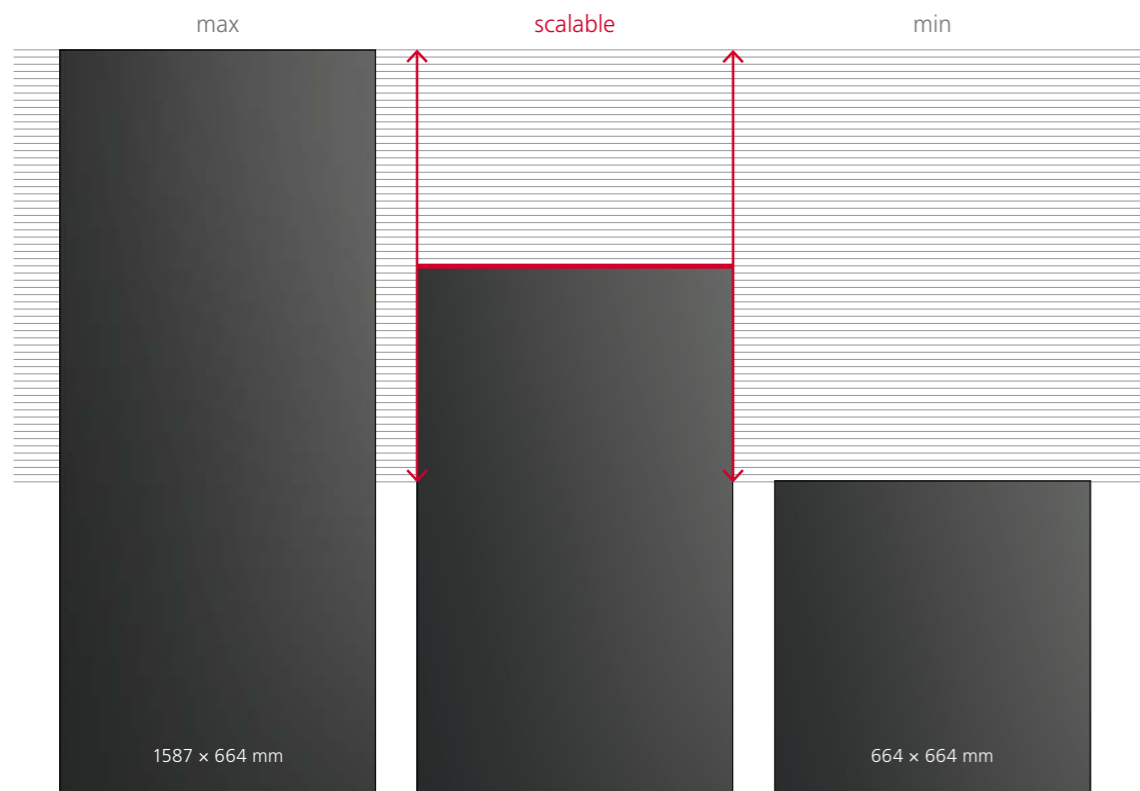
ONE MODULE, ENDLESS POSSIBILITIES

SKALA is a cross-material all-rounder. By spanning a range of material, length and color, the module allows maximum freedom in planning and designing solar active elements of a building envelope.

Builders, architects and façade designers get a scalable building material for environmentally friendly façades which improve the energy balance contribution to the building and thus reduce the total cost of ownership.

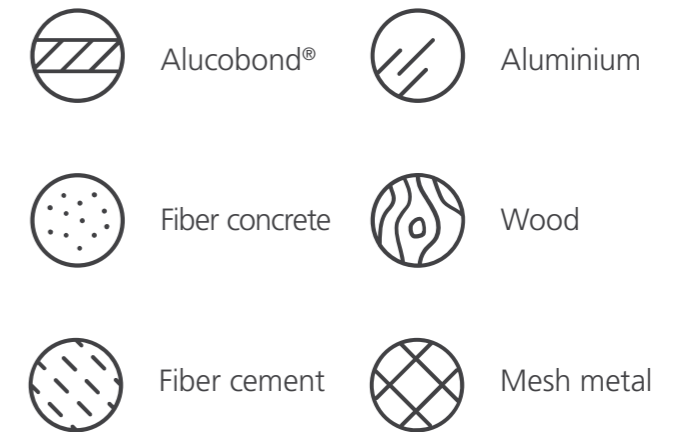
SIZE

SKALA architecture modules have a standard size of 1587 mm × 664 mm which can be adapted to the minimum size of 664 mm × 664 mm. The combination of standardized and resized panels creates exclusive and customized solar façades.



MATERIAL

SKALA can be combined with a wide range of different façade materials like aluminum, ALUCOBOND®, fiber concrete, wood, mesh metal etc. The dream of an aesthetic and at the same time economical solar façade becomes reality.



COLOR

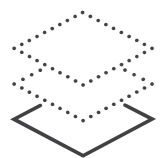
Based on the special characteristics of the CIGS technology, SKALA modules are characterized by a uniform black surface. Furthermore, SKALA architecture modules are also available in different colors. In contrast to other colored PV modules, SKALA use the reflection of the sunlight to create the colorfulness.



OUR FULL SERVICE CONCEPT: FROM PANEL TO A FULL FAÇADE PROJECT

The planning and execution of solar façades require a special engineering expertise. In addition, the design, technical and economic aspects from the customer, architect and construction managers need to be coordinated with the requirements of the façade builders and electricians.

All product and service strategies for the premium façade market are developed at the AVANCIS BIPV Design Center: from the product competence, to the technical consultancy up to the responsibility for planning, supervising and finally the execution of the whole façade project via our network partners.



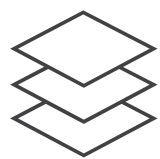
Basic MODULES ONLY

Production and delivery of customized façade modules.



Advanced MODULES & CONSULTING

Production and delivery of full façade kits including technical and economical consultancy.



Full Service TURNKEY SOLUTION

Design, planning and realisation of the entire solar façade solution. The full service package includes all services for a turnkey facade, starting from the idea to the design up to the project and partner management for the realization.

VENTILATED FAÇADE SYSTEMS WITH SKALA

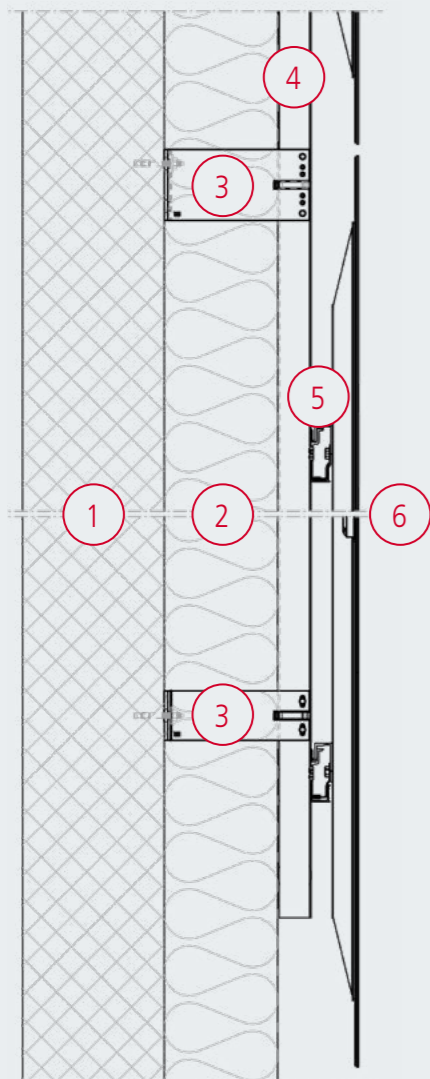
SKALA architecture modules were designed for the innovative and functional use in ventilated façade systems as part of an energy efficient and sustainable building envelope.

Ventilated façades combine the advantages of an aesthetic solution with a thermal and water repellent protective cover for the building.

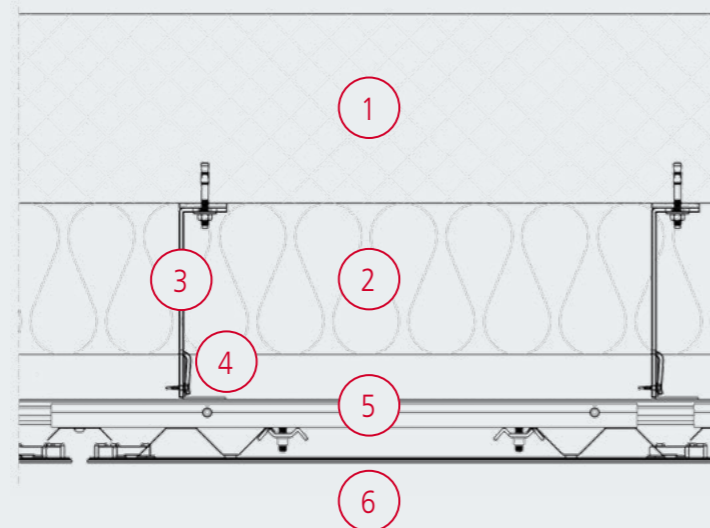
With SKALA, the passive façade becomes a solar-active façade which generates green energy for the building.

Whether as prefabricated façade kit or turnkey façade solution, SKALA is your module for your individual energy efficient construction project.

Vertical Cut



Horizontal Cut



- 1 Wall
- 2 Insulation
- 3 Vertical console system
- 4 Vertical support profile
- 5 Connection with agraffes adjustable
- 6 Avancis SKALA module

MOUNTING: EASY, FAST AND FLEXIBLE

Depending on regional and local building regulations, SKALA modules can be installed in portrait or landscape format. Thanks to their sophisticated mounting kit, they can be combined easily with any façade substructure.

Landscape Mounting



Portrait Mounting



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