STO ISONED
BUILDING WITH CONSCIENCE

As a facade specialist, Sto has been building a finer and energy-efficient building stock for 60 years, worldwide. In close cooperation with our partners we develop innovative facade insulation systems, whereby we keep the balance between ecology and economy in mind. Building with Sto means sustainable building and renovation.

Architects are faced with a major challenge these days. Ecology, energy saving, cost awareness, innovations ... More and more aspects play a role in architectural design. Sto has been aiming for the highest level in the field of exterior wall insulation systems for over 40 years. For Sto, technology and aesthetics go hand in hand. After all, architecture is all about expression: perception and emotion are inextricably linked to architectural design.

Genuine cooperation will always be a win-win situation. Under the motto ‘Building with Conscience’, we provide our partners not only with first-class products, but also with advice and services that provide enormous added value for the building process.

Let this guide inspire you with the inexhaustible possibilities of our facade systems. You will see: Sto makes the impossible possible!
Wherever you design or build: we accompany everyone at each project stage with products, systems and advice for facade, interiors and acoustics. Our experience and local knowledge of regional technical and climatic regulations can help you turn inspiration into reality.

Sto is founded on a culture of research and development combined with the highest standards of manufacturing. Our range of materials and systems forms the basis for improving the energy efficiency of buildings. Sto’s clients rely on the quality and performance of our products, supported by worldwide expertise and tailored services to provide outstanding results for projects of any size and specification.

Facade insulation systems by Sto enable architects and designers to work with considerable freedom in terms of creativity and design. Its high performance components mean we can meet all common international energy-conservation standards in construction. Whether it’s a low energy house, Passive House, or energy-plus building, the energy consumption of modern buildings is a decisive sign of quality. The high performance range of facade insulation systems from Sto Group allows designers to achieve the highest environmental performance standards without compromising creativity in facade design whilst conserving energy. We offer a wide range of insulation material types, EPS, PIR, Mineral Wool, Timber fibre & Mineral foam, all carefully tried and tested to ensure compatibility with the composite system build-ups.

In this architecture travel guide you’ll find expressive architecture all around the world, built with Sto products and systems: Global presence, converted to local knowledge.
The National 9/11 Memorial Museum serves as the principal institution for examining the implications of the events of 9/11, documenting the impact of those events and exploring the continuing significance of September 11, 2001 in New York City. The Museum’s 110,000 square feet of exhibition space is located within the archaeological heart of the World Trade Center site - telling the story of 9/11 through multimedia displays, archives, narratives and a collection of monumental and authentic artifacts. The lives of every victim of the 2001 and 1993 attacks will be commemorated as visitors have the opportunity to learn about the men, women and children who died.

The building is designed by Davis Brody Bond in cooperation with SNØHETTA. The 9/11 Memorial Museum is unique because it is located within and surrounded by remnants of the original World Trade Center site. The largest of the spaces within the Museum is Foundation Hall, with nearly 15,000 square feet of floor space and ceilings ranging from 40 to 60 feet. Here, you can find the slurry wall—a retaining wall originally built to hold back the Hudson River—and the remnants of cutoff box columns that once formed the exterior structure of the Twin Towers.
The small Norwegian town of Førde draws its qualities from its interaction with the surrounding mountains, which are visible everywhere, and from Jostedalsbreen, the largest glacier on the European mainland. The Sogn & Fjordane Art Museum also draws upon the distinctive landscape for its architectural expression; the museum lies like a crystal-clear block of ice that has slid down from the surrounding mountains.

The crystalline form provides an asymmetrical plan solution, with varying displacements in the facade. The facade is clad in white glass with a network of angled lines, reminiscent of the fracture lines in ice. This network also defines the irregular window apertures. In the evening these lines are illuminated, so that the museum lies like a sparkling block in the middle of the town’s darkness.

Inside, visitors move upwards through the four floors of exhibition space, enjoying a panoramic view of the mountains from a roof terrace at the top that can also function as an exhibition space or stage.
The design of Auditorium and Congress Palace Infanta Doña Elena is a response to the stimulus offered by the location. On one hand the need to respect the urban tissue that grows inside, on the other the one’s to preserve the expressive hue of the natural landscape.

It is through this contrast, that the architects define and articulate tensions, which allows the project to organize itself as a coherent response to the constraints of the place. The building is a dialectic reflection, simple but at the same time strong, between the urban artificiality and the organic naturalness.

The building results in a large mass, shaped in function of the tensions that proceeds from the different character of the spaces surround it. Tangent to the town, the facades are clean, orderly and paused, while tangent to the sea, the facades translate the surrounding space and the configuration offered by the landscape and geography, through large and concave surfaces, that provides a direct and intensive relation with the surrounding natural environment.
E-TON SOLAR HEADQUARTERS
HANS HOLLEIN ARCHITECTURE

location  Tainan City, TW (2009)
function  office, factory
contributed by  Sto

E-Ton Solar Headquarters hosts the company’s headquarter offices and its factory. The factory for photovoltaic modules is a very concentrated and compact building.

Two enormous cubes of 50 x 50 x 50 meters are pushed into one another. One cube made of glass, the other of solid material. One in deepened into the ground, the other tilted and floating. Together they form a crossed sculpture, positioned at the border of an artificial lake in the midst of a park.

ADDRESS
Kejigongyuan Boulevard
Tainan City
Taiwan 709

STO PRODUCTS
StoTherm Classic
Stolit K
Stolit Effect
Stolit MP
StoColor Metallic
De Haaf Estate consists of three residential buildings. Located on the edge of the historical city centre of Bergen, surrounded by dunes, it offers a unique residential quality. The architecture is organic, sustainable and flexible, which leads to an everlasting appearance.

The organic main form of the building was deducted from the urban design. The organization of the various apartments and the final form of the building were achieved by the predetermined requirements each apartment should meet: getting the maximum amount of sunlight, privacy and view.

All three buildings count four storeys and offer apartments with floor sizes varying from 120 to 350 square meters, added up with balconies between 25 and 140 square meters. The construction - consisting of a column structure, centered in the middle of the building with extending floors to the outer parts of the building - arranges the layout of the apartments to be extremely flexible, with which it allowed the inhabitants to participate in determining the location of their own facade between their apartment and balcony.

Address
Koninginneweg 25-35
1862 EX Bergen
Netherlands

Website
www.wonenopdehaaf.nl

Sto Products
StoTherm Classic
Stolit MP

Photography: Ronald Tilleman (1,2,3)
School Building De Garve in Lochem was given a tight building ground. By giving the building round edges, 19 Het Atelier had found a smart way to deal with the difficult borders of the building plot and enough space to house two different schools in this one new building.

From the selection of the architects until the realization, the children have had an active role in the process. 19 Het Atelier has given children architecture lessons and translated the children’s ideas into the design, realizing their biggest wish: a slide in the middle of their school.

The quirky facade immediately catches the eye, reminiscent of waving cornstalks. Based on drawings by Esscher, the architect developed a pattern of flat-filling pentagons in different colors, combined with an ornamental plaster finish. The color of the materials is reflected in the surrounding buildings, which are mainly made of masonry. The application of Sto-Ecoshapes made this individual design possible: these prefab stucco elements are shaped in terms of size, color, shape and texture.
DEUTSCHES BERGBAU MUSEUM
BENTHEM CROUWEL ARCHITEKTEN

location Bochum, DE (2009)
function exposition space, monument, museum
contributed by Roderick Trompert

The Deutsches Bergbau Museum (German Mining Museum) lies in the heart of the Ruhr Area, in the city of Bochum. The museum is one of the most important mining museums and one of the most popular museums in Germany.

The extension of the Deutsches Bergbau Museum stands black like coal next to the 1935 designed main building by Fritz Schupp. The new building comprises 1,795 square metre and is linked to the existing structure by bridges. It houses temporary exhibits (and research presentations) and the existing permanent collection devoted to Saint Barbara, the most important guardian saint of miners.

In contrast to the strict brick architecture of the additions from the 70s and 80s, the design of the architectural firm Benthem Crouwel is not based on the existing stock, but is intended to commemorate a cross section through a mine. Coal inspired the rough, black surface of the facade. Orange illuminated cuts indicate the mine shafts that run through the soil.

ADDRESS
Am Bergbaumuseum 28
44791 Bochum
Germany

OPENING HOURS
Tue - Fri: 8 - 17
Sat + Sun: 10 - 17
Mon: closed
Last tour: 15:30

WEBSITE
www.bergbaumuseum.de

STO PRODUCTS
StoVentec R
Stolit (added Silicium-carbide)

Photography: Guido Erbring (1,2,3,4)

MIOMOA
Collective housing Balk van Beel is part of the Tweewaters city masterplan and comprises 101 apartments, 2,400m² of commercial space and underground parking for 400 cars. On the ground floor it also contains small shops and services and three lobbies to the apartments above, where every inhabitant has a bicycle rack and home delivery box. The five storeys are staggered relative to each other, giving the building a strong note of elegance and attractive outdoor spaces for the apartments. The upper storey is conceived as consisting mainly of patio penthouses.

Balk van Beel received a prestigious BREEAM award twice (2012 and 2013), was praised as an ‘outstanding’ building in the area of sustainability with a score of 87.8% and emerged as winner in the international comparison with all other buildings in its category. Due to its excellent thermal and acoustic insulation, high recycling percentage and renewable energy sources, its intelligent energy use and sustainable choices of material, it was also nominated by MIPIM in the category ‘Best Innovative Building’. The sustainable building was combined with substantially increased living comfort for its residents, with the environment also benefiting.
AATRIAL HOUSE

KWK PROMES ROBERT KONIECZNY

location
Opole, PL (2003)
function
private house
contributed by
Sto

The house is situated in a beautiful site in Lower Silesia, close to Opole. The majority of the low density settlement in the surroundings is formed of “cube - houses”, buildings typical for the 1970’s. The 1 ha site near the forest, where the building is designed has only one weak point: south-west access. An obvious conflict develops between the driveway and the garden. The idea arose to lower the driveway in order to separate it from the garden, which prompted to another idea - of a driveway leading inside to the ground floor level, from underneath the building, and creating an inner atrium with the driveway in it.

As a result, the building opens up onto all sides with its terraces in an unrestricted manner. This in turn has made it possible to obtain a new spatial model of the house, which is the reverse of an atrial building. The aatrial house is closed to the inside and opened to the surroundings.

The building is a reinforced concrete monolith, and concrete is at the same time the finishing material of the transformed cube, while all additional elements are finished with dark ebony. The driveway and retaining walls were made out of quarried granite blocks, the material characteristic for the surroundings.

STO PRODUCTS
StoLook Veneziano
StoLook Punto F
StoLook Maximo finish

ADDRESS
Opole
Poland

OPENING HOURS
Project is not public

Photography: KWK Promes (1,2,3)
Until the 1990s, traditional cider houses, valued for its entertainment and nightlife, dominated the area of Frankfurt’s Alt-Sachsenhausen, but it was heavily run down in recent years.

Franken Architekten was commissioned to renovate an existing building into a home and studio in the heart of Alt-Sachsenhausen. But as preserving the run-down, three-story building turned out to be prohibitive from the perspectives of economics, construction, and even architectural history, the architect and client decided to demolish it. As the new building’s scale and facade had to integrate themselves successfully, the architects duplicated the form of the existing while simplifying it.

For the facade the notion of the afterimage was employed - the effect of staring at an object for a length of time and seeing a blurry or faded rendition of it after closing one’s eyes. So a fuzzy picture of the demolished building would be produced in the new building, but an image that would be blurrier the closer one gets. To achieve this, a computer algorithm scanned drawings of the original to create a new drawing of parallel lines and inserting a “parametric jitter” each time it crossed the trusses.

**STO PRODUCTS**
- StoTherm Vario
- StoDeco

**ADDRESS**
Kleine Rittergasse 11
60594 Frankfurt am Main
Germany
In the second largest city of the Czech Republic, Brno, the architects of IKA Brno have transformed an empty office building into a modern shopping mall. With its unique and notable facade Letmo Shopping Center has become a real eye-catcher and a new highlight in the city center, right across the central station. The building features a plain white plastered facade, with organic openings that let passerby’s get a peek of what is happening inside.

Its unique character is achieved by its elliptic shaped openings that seem cut out of the plain facade. The outer layer of paint has a high resistance to absorption of dirt, resulting in self-cleansing when it rains ensures a long-lasting brightness of the white facade. To emphasize the new function of the building, the architects have brought the public space and the shopping mall closer together. This was achieved by removing the former entrances and by moving the escalators to the inner atrium. The result is an open ground floor with glass facades, connecting the two adjacent streets with a passage, showcasing products and seducing visitors to step inside.

ADDRESS
Nádražní 681/2a
602 00 Brno
Czech Republic

OPENING HOURS
Mon – Fri: 8 - 20
Sat + Sun: 9 - 18

WEBSITE
www.ocletmo.cz

STO PRODUCTS
StoVentec R
Stolit K
Stolit MP
StoColor Lotusan G
DATEV IT-CAMPUS
BOESEL BENKERT HOHBERG ARCHITECT

location Nuremberg, DE (2017)
function office
contributed by Sto

The new DATEV IT-Campus reflects the new changes in software development. Nowadays, software development teams are more flexible, projects have to influence each other and a project team should always be prepared for changes of direction in the development process. The architecture of the new DATEV building reflects this trend. Flexible work spaces, rest and lounge areas as well as meeting rooms within a department enable communication and working in deep focus in a flexible way.

The new DATEV building does not only represent a modern work environment, but its architecture also reflects the dedication and creativity of its users, who helped in the design of the new campus. Not only participated the co-workers participated in the design for the meeting areas and in the selection of themes for the six courtyards of the building, also an artistic sculpture of 250 faces at the entrance of the campus personalizes the workspace of the co-workers. Open communication and the integration of individual perspectives from the head start have removed any doubt the co-workers might had.

ADDRESS
Fürther Strasse 111
90429 Nuremberg
Germany

WEBSITE
www.datev.de

STO PRODUCTS
StoVentec Stone Massive
StoTherm Mineral

Photography: Gerhard Hagen (1,2,3)

MIMOA
KLETTERZENTRUM EICHSTÄTT
SEIBOLD+SEIBOLD ARCHITECTS

location Schernfeld, DE (2016)
function leisure, sport
contributed by Sto

This climbing center designed by Seibold+Seibold Architects is located in the middle of the quarries north of Eichstätt.

The building visually reminds its visitors of the function of the location as a former quarry. The monolithic north and south facade, covered in natural stone is a reference to its location and the traditional craftsmanship of stone processing the region is known for. The clients’ key requirements for the design were its ecological construction and a sustainable exploitation of the building. Therefore, most parts of the building are made of wood. The building also features photovoltaic cells that generate even more energy than the building uses.

The building features a climbing surface of 730 square meters, a Boulder Cave with 160 square meters of climbing surface and an outdoor climbing area with 430 square meters of climbing surface.
This black cantilevered office building in Graz is the new headquarters of Uniopt Pachleitner Group, a company specialized in eye-wear and jewelry. GSarchitects designed this building reflecting these products, as well as the company’s culture and philosophy. The building also includes a hotel, office space, shop, and restaurant. He office-building MP09, named after the owner of the firm, Michael Pachleitner, also called Black Panther, has become a landmark to the city-entrance of Graz.

“Where design and shape evolve, ideas emerge. Elegant and smooth, the Black Panther composes eagerness and speed to the urban architecture. His watchful eyes attend the street – movement and silhouette merge in the dance of the forces and the night.” - GSarchitects

Special feature of the five-floor giant made of reinforced concrete is StoVentec glass. Not only lends it the appearance of a black panther but it also provides numerous other advantages. The glass facade provides an optimum visual screen; is quickly installed; works as a thermal insulant in winter and in summer it ensures comfortable temperatures inside the building.
THE SPIRAL HOUSE
POWERHOUSE COMPANY

location Combertault, FR (2009)
function private house
contributed by Sto

This extension to a private house in Burgundy, France, was designed by Powerhouse Company. The architecture office, based in Rotterdam and Copenhagen, took the wishes of the owners quite literally. The owners wanted a house with a twist, and Powerhouse Company gave them one. The extension houses the public rooms such as a living room, where guests can be hosted. The current building houses the private rooms.

The extension, as its name suggests, wraps around a central patio. On the ground floor the living room and library are situated; and the guest rooms are found on the first floor. The extension has glazed walls on the inner side of the spiral, which allows light from the patio to enter the building. Due to its shape, the building moves freely into the garden allowing the garden to extend into the patio, blurring the boundary between the house and the garden.
In 2010 a new building has been added to the Vitra Campus. The VitraHaus lies in close proximity to the Swiss border and the furniture manufacture’s Basel headquarters. Here the Vitra Home Collection is shown. The furnishings and objects are arranged in a variety of settings for both living and working: classics by Charles & Ray Eames, George Nelson, Isamu Noguchi, Jean Prouvé and Verner Panton are combined with contemporary designs by Maarten Van Severen, Ronan & Erwan Bouroullec, Antonio Citterio, Hella Jongerius, Jasper Morrison and others.

With the VitraHaus, there is a sense of “homecoming” not only with regard to the architects, but also in the building concept. Herzog & de Meuron made reference to the archetypal form of the gabled house, which is found in residential structures around the globe. They have stretched this basic form and combined a series of “houses” in an intersecting stack.
STODESIGN
13 COUNTRIES - 18 DESIGN STUDIOS - 46 COLLEAGUES

Founded in 1977 at the headquarters of Sto in Stühlingen (Germany), StoDesign was one of the first professional colour design studios, covering facade and interior design. Exterior design is at the very heart of StoDesign, incorporating the colour design for external facades. The team uses a full range of colours and products for all elements of design and architecture. Projects range from public buildings, houses, offices to factories and more.

The diversity of cladding and insulation possibilities does not make it easy to design a building. Sto helps wit its own design service: StoDesign. With the know-how from the global network of research and development centres and all the StoDesign Studios we help with:

- Creating or refining facade impressions
- Searching for alternative materialisation possibilities
- Developing detail solutions

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www.sto.de/de/service/stodesign/stodesign.html