

sikla

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C5H
DUALSHIELD

30 years of Sikla Switzerland - a success story

Sikla Switzerland was founded in Fehraltorf in 1995. Since then, the company has grown and developed continuously. Especially in recent years, the workforce has expanded from around 10 to over 40 dedicated employees. In addition to the headquarters in Fehraltorf, there has been a branch office in Füllinsdorf (BL) for several years. This is where the engineering department, parts of the BIM team and the key account management are located. In recent years, the focus has been on expanding engineering and BIM in particular - a strategically important step toward our vision of *"We enable the networked construction site"*.

Through its involvement in numerous large-scale projects in industrial and plant engineering, Sikla Switzerland has earned a solid reputation as a reliable partner. Close cooperation with investors and contractors allows our involvement in exciting



and challenging projects.

At the end of 2025, Sikla Switzerland will be represented in French-speaking Switzerland for the first time with its own team. This will further strengthen the regional presence and enable customers to receive even better support across regions in the future.

Sikla France celebrates 30 years

Grown together, shaped together: Three decades - that means 30 years of commitment, development and partnership. Since 1995, Sikla France has been supporting its customers with intelligent solutions and technical expertise, and has grown steadily in terms of employees, space and requirements. With the move from Lognes to Serris in 2008 and the doubling of warehouse and office space, a new chapter began. From the start, the company has faced the key challenges of our time, such as digital transformation, increasing time constraints, and growing responsibility toward our environment. Managing Director Thomas Deprat emphasises that the success achieved is not a coincidence, but the result



of a strong team, loyal customers and reliable partnerships. The Sikla France team says: "Merci for your trust, loyalty and inspiration."

Family Day in VS Schwenningen

The Sikla Family Day took place on 5th July in the best summer weather. Employee relatives had a great opportunity to take a look behind the scenes. There was plenty of food and a variety of lively activities. A successful day that boosted team spirit in the Sikla family.



Dear Readers,

The future begins where vision meets passion. With passion, an innovative spirit and a firm belief in the power of our slogan “Together we build. siklaproof.” we are shaping the future of construction together with you: connected, digital, sustainable, and siklaproof.

Our solutions are based not only on technology, but also on a deep understanding of your challenges. Whether with the new DUALSHIELD C5H coating, which rethinks corrosion protection, or with the siMetrix support system, which takes planning and assembly to a new level, we create room for progress.

And when our all-rounder siFramo with One-Screw Technology is used in one of the world’s largest research projects in the field of energy production, it fills us with pride and gratitude for the trust our partners place in us.

Be inspired by ideas that connect and technology that moves.

I hope you enjoy the read.

With kind regards

Manuela Maurer
Corporate Culture & Communications



CORPORATE INFORMATION **sikla**

Editorial department and responsible for the content:
Sikla Corporate Services Headquarters GmbH ·
In der Lache 17, 78056 VS-Schwenningen, Germany

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Export & Overseas Department

Sikla GmbH
In der Lache 17
D-78056 VS-Schwenningen
Phone +49 7720 948 0

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Our Mission: We Enable the Digital Construction Site

The industry is undergoing an enormous change. The digital construction site is becoming a reality. As leading specialists in support systems, we have been and are an essential part of these changes. With our advanced, smart and reliable solutions and services, we want to help customers successfully manage this transformation.



Manuela Maurer talking to Dieter and Reiner Klauf

What advantages does Sikla see in consistent digital planning of building services systems for the construction process?

R. Klauf: A lot of time is currently invested in the 3D planning and visualisation of the outer shells and experiential spaces. Modeling of building services systems is still rare in the industry. We would like to see more of this, because digital planning allows for the efficient integration of all technical systems—such as plumbing, heating, air conditioning, ventilation, electrics, and IT. This means collisions will be detected early and can be avoided. This reduces time constraints on the construction site and prevents expensive rework. Overall, this leads to faster construction, as potential conflicts can be resolved in the planning phase.

What are the basic requirements for cross-trade planning?

D. Klauf: In my opinion, integrated planning needs to take into account supports and their space requirements from the beginning. Support spans must be integrated in the design at an early stage; auxiliary structures, if needed, must be planned for. Joint routes should be coordinated with all trades involved in the construction project. We recommend treating main routes as an integrated planning unit and coordinating the support systems accordingly.

How does Sikla support the planning phase?

R. Klauf: Sikla has been providing software plugins such as REVIT, E3D or S3D for 25 years. The plugins are natively programmed, connect seamlessly to the basic software and avoid error-prone connectors. This enables efficient and siklaproof planning.

Our user guidelines enable simple static calculations to be verified efficiently using Typicals. More complex requirements are mapped with externally tested and certified parameters in standard programs. For example, a complete system can be verified in accordance with Eurocode 3 without having to create separate statics for each individual support.

What must be taken into account during product development in order to enable highly automated planning?

D. Klauf: The digitalisation of individual products is not enough. It is crucial that supports can be generated using algorithms. This can only be achieved if the focus is placed on future planning capabilities during the product development stage. Few, but highly functional parts are required for this. Conventional systems made from channels and connecting components with a high



We see ourselves as pioneers in the fastening industry. Everything must be siklaproof for our customers.

variety of parts cannot achieve the necessary degree of automation.

Which Sikla systems are designed for digital planning?

R. Klaufß: With the introduction of Pressix CC in the mid-1990s, we initiated a paradigm shift—from individual components to functional assemblies. With siFramo, we reached another milestone in 2006. For the first time, a fully integrated support system for largely automated planning was defined in the specifications. With the launch of siMetrix 2024, we have added another system to our portfolio. It is designed for algorithmic planning and, together with siFramo, is an efficient and economic addition to the 3D planning area with different load ranges.

To what extent do these systems have a concrete impact on planning?

D. Klaufß: siFramo and siMetrix can be used to economically model complete systems in detail. Supports can be created, copied and used easily with just a few clicks. Parts lists and calculation data are generated automatically. Focusing on algorithmic planning in product development also opens up the possibility of using AI, which is easier to train thanks to reduced part diversity and clear structures.

With which services does Sikla currently support the networked construction site?

R. Klaufß: As Aristotle said, the whole is more than the sum of its parts. Digital pre-planning enables services that increase the overall benefit for our customers, such as:

Partial deliveries on specific dates: The material requirements can be determined for each construction phase and retrieved just-in-time.

Prefabrication: Many supports can be produced offsite at low cost and delivered in sync with the construction process.

Pre-assembly: Where prefabrication is not practical, specific supports can be pre-assembled with precise positioning.

Digital additional information: Pre-mounted or pre-assembled supports can be located using a code, including installation information - useful for revisions or modifications.

Audit plans: Digital “as-built” documentation enables precise follow-up planning without remeasurements.

What significance does the topic of “sustainability” have in this context?

D. Klaufß: Detailed planning with pre-assembly and prefabrication minimises the use of materials. Environmental Product Declarations (EPDs) provide transparent evidence of the environmental impact of the entire material chain - an important component for building certificates and CSR reporting. We are also preparing to offer siFramo profiles made of CO₂ -reduced steel.

How far has the industry come along this path today, and what is needed to make this vision a reality?

R. Klaufß: Not all of the options mentioned can be fully implemented yet. But we see ourselves as a strategic innovator that is actively working to turn this potential into reality. This is only possible by working in close cooperation with our business partners on the common ground of the networked construction site.

D. Klaufß: We believe in the networked construction site. Our activities in the areas of software, product development and process optimisation are derived from this strategic conviction. Only if we consider these aspects as a whole, can this vision be realised.



In piping and pipe support technology, effective corrosion protection is crucial - not only to extend the service life of components, but also to save costs and resources. Approximately one-third of maintenance costs are attributed to metal corrosion, which could be prevented by using suitable corrosion protection.

New High-Performance Coating **DUALSHIELD C5H** - Efficiency, Safety and Sustainability

A thorough analysis of the environmental conditions (climate and atmosphere) forms the basis of every project plan. Inadequate corrosion protection concepts often lead to support structures failing before the end of their intended service life. In addition to the direct economic consequences, there are additional risks:

- ◆ Safety concerns due to unstable or failing components
- ◆ Risk of injury
- ◆ Indirect additional costs due to downtime and repairs

Surface corrosion and influencing factors

The most common form of corrosion is so-called surface corrosion, in which rust (red iron oxide) forms evenly over large areas of the surface. This occurs when iron is exposed to oxygen in a humid environment. Microclimatic influences such as salty air, chemical substances, acid rain (e.g. SO_x) and air pollution significantly intensify this process and shorten the service life of the affected components.

Assessment of corrosion exposure

The ISO 12944-2 standard provides a systematic classification into corrosivity categories (C1 to CX) that allow an assessment of the environmental conditions and the expected corrosion intensity. This classification is essential for selecting suitable protective measures.

Sikla protective measures - from high corrosion protection to DUALSHIELD C5H

To prevent corrosion, steel is coated with a protective layer. Sikla offers a wide range of products with different surface treatments that are suitable for different corrosivity categories and protection periods, depending on the technical specification.

A proven method is hot-dip galvanising, also known as immersion galvanising (HCP), in which steel parts are immersed in molten zinc. The resulting iron-zinc layer provides reliable protection up to category C4 (high corrosivity) and is also cost-efficient. However, this protection is not sufficient for particularly aggressive environments such as industrial plants with high chemical loads (e.g. sulphur or chlorides). This falls under category C5 (very strong corrosivity), which requires special solutions. With DUALSHIELD C5H, Sikla offers an innovative solution for the highest requirements.

DUALSHIELD C5H - high-performance coating for extreme conditions

The duplex coating combines

- ◆ hot-dip galvanising as basic protection with
- ◆ a powder coating (primer + polyester top coat in RAL 7035).

Threaded parts are supplied in stainless steel and do not require any further treatment.

This combination offers you the following advantages:

- ◆ Maintenance-free corrosion resistance for C5-high according to ISO 12944-6
- ◆ High resistance to splashing water, condensation, salty air and chemicals
- ◆ Temperature resistance from -40 °C to +75 °C
- ◆ Abrasion-resistant surface - ideal for sandy or mechanically stressed environments
- ◆ The high-performance duplex coating leads to a significantly longer service life, even under aggressive environmental conditions.

Sustainability and environmental compatibility

Sustainability and environmental compatibility are becoming increasingly more important, and the demands on our customers are growing. DUALSHIELD C5H also meets high environmental standards:

- ◆ free from bisphenols, halogens, volatile organic compounds (VOCs), phthalates, plasticizers and PVC
- ◆ maintains water quality
- ◆ environmentally friendly and safe to use

With over 360 items, the DUALSHIELD C5H range offers a wide selection of siFramo and Simotec products. Our software plug-ins for E3D and S3D allow you to integrate all products into your planning quickly and conveniently.



Dominik Zanker
(M.Eng)

		1 hr	24 hrs	1W	2W	3W	4W	5W	6W	7W	3M
Hydrochloric acid	30%	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant
Sulphuric acid	50%	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant
Nitric acid	10%	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant
Phosphoric acid	conc.	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant
Acetic acid	10%	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant
Sodium hydroxide	5%	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant
Caustic soda	40%	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant
Ammonia	10%	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant
Diesel		Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant
Unleaded petrol		Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant
Brake fluid DOT 4		Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant
Hydraulic fluid		Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant
Ethanol		Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant
Ethyl acetate		Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant
Methyl ethyl ketone		Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant
Xylene		Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant
Isopropanol		Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant
Toluene		Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Resistant
Moderately resistant
Not resistant

Chemical stability of polyester primid
Source: Ganzlin GmbH

TEST CERTIFICATE	
Test report-No.	220316 240937
Client:	Sika Corporate Services Headquarters GmbH In der Lache 17 D- 78056 Villingen-Schwenningen
Testing:	Testing in accordance with DIN EN ISO 12944-9 (2018) corrosivity category C5 - high-test program 1 and 2
Pretreatment:	hot-dip galvanizing according to DIN EN ISO 1461-1 Zn k
Primer:	EP-Primer RAL 7042 NDFT 80 ± 20 µm
Intermediate layer:	EP-Primer RAL 7042 NDFT 80 ± 20 µm
Top coat:	PE or PUR top coat NDFT 80 ± 20 µm
The coating system tested in accordance with DIN EN ISO 12944-6, corrosivity category C5 - high; test program 1 and 2 fulfill the requirements.	
Magdeburg, 20.03.2025 ILF Magdeburg GmbH	
 Dipl.-Chem. Cornelia Dreyer Head Application Technology	
Eisenstraße 28 06110 Magdeburg Tel.: +49 (0)361 3604-0 Fax: +49 (0)361 3604-222 www.ilf-magdeburg.de	Siemensstraße 1 78056 Villingen-Schwenningen Tel.: +49 (0)7141 93-111 Fax: +49 (0)7141 93-112 www.sika.de
Zertifiziert nach DIN EN ISO 9001 Zertifiziert nach DIN EN ISO 14001 Zertifiziert nach DIN EN ISO 45001	Zertifiziert nach DIN EN ISO 14001 Zertifiziert nach DIN EN ISO 45001 Zertifiziert nach DIN EN ISO 14001

Corrosivity category C5 high certificate



Use in abrasive environment
Project location: Abu Dhabi



siFramo Impressing Our Clients

As part of the ITER project in Cadarache, France, siFramo support structures were planned and installed in all cable ducts.

ITER (International Thermonuclear Experimental Reactor) is one of the world's largest and most ambitious research projects in the field of energy production. The goal is to use nuclear fusion - the energy source of the sun - as a safe, clean, and virtually inexhaustible source of energy for humanity.

A specially designed Tokamak reactor is designed to produce a fusion plasma that delivers ten times more energy than is required for heating. ITER is an international project involving the EU, the US, China, Russia, India, Japan and South Korea.

In 2017, during the construction of the ancillary buildings around the Tokamak, Sikla first began planning and designing the supporting structures for the cable ducts in the various buildings. Thanks to the cross-border cooperation between Sikla Hispania and Sikla France, the stringent requirements of a project of this magnitude were met successfully. From the very beginning, both teams worked hand in hand to meet the requirements of the specifications and develop tailor-made solutions.

The investor's control and monitoring departments must ensure the highest quality standards in both planning and compliance with regulations, demanding the greatest precision and maximum certainty in all calculations.

The Sikla Engineering services fully met ITER's expectations - a decisive step that paved the way for further cooperation.

The speed of the project, the highest design standards with regard to static verification, as well as short delivery times and quick installation, prompted the management of ITER Cabling Systems to opt for the siFramo support system and to tender.



Installation of cable ducts with siFramo TKO F support brackets

The One-Screw Technology has greatly simplified and sped up installation, meaning that only one type of screw is required for the entire installation.

Thanks to the flexibility of the system, millimetre-precise adjustments could be made on site, as was the case with the Tokamak building. In addition, the use of siFramo also led to cost savings due to the lower weight compared to conventional systems.



David Beltran (centre)
ITER Organisation
Project Leader
SSEN &
Cable Systems Project

“ As part of the ITER project, we greatly appreciated the technical support and tailor-made solutions provided by Sikla’s engineering team for the various support systems for cable ducts and pipelines. Sikla was responsible for the calculations and preparation of reports for the seismic qualification of its siFramo support system. The results were extremely satisfactory. Sikla is seen as a strategic partner in the construction of the nuclear reactor and the associated ancillary building. ”

Interesting facts

- ◆ A total of over 8,000 TKO F support brackets were installed.
- ◆ Easy-to-install with One-Screw Technology. More than 100,000 FLS F self forming screws were used.
- ◆ Over 17 km of tunnels were installed for high-voltage cables.
- ◆ Sikla provided around 2,000 hours of on-site engineering and technical support.



siFramo supports in the Tokamak building



TB21 with TKO F support brackets



siMetrix Use On Site - When Every Minute Counts

Helping to shape the future is our aspiration. We recognise trends and turn them into reality. siMetrix is an easy to plan, three-dimensional and stepless click system - flexible and modular. By integrating with standard planning tools, siMetrix sets new standards in planning and assembly.

Innovative solutions for a booming industry

The Slovenian pharmaceutical industry has established itself as a major player in Europe in recent years. Companies such as Lek, Novartis and Krka are among the leading European manufacturers of biopharmaceutical and generic products. The positive development of the industry makes Slovenia an attractive location for investments in pharmaceutical production and research.

In this dynamic environment, Sikla has developed innovative solutions for complex installations together with the Slovenian company IMP PROMONT d.o.o. IMP PROMONT is a leading provider in the field of planning, execution and management of complex engineering projects - particularly in the pharmaceutical, medical and chemical industries as well as energy and gas supplies.

siMetrix as the key to project success

Time is one of the decisive success factors in the realisation of complex projects. After initial successful applications, the siMetrix support system, introduced in October 2024, was used in a larger pharmaceutical project led by IMP PROMONT. The system was impressive with outstanding results in terms of efficiency and flexibility.

Closed, torsion-resistant sections, brackets and connecting parts enable the construction of complex support systems with a minimum number of parts and an optimal weight-to-load-bearing capacity ratio. The advantages of the system lie in its modularity, quick installation and compatibility with existing Sikla systems such as siFramo. Reduced component diversity and easy assembly enable flexible planning and efficient implementation - even in the event of short-term changes. This significantly reduced the project duration.

Digital planning meets precise implementation

The project was planned using AutoCAD Plant 3D, which allowed changes to be coordinated in real time and transferred directly to the construction site. The floor-by-floor assembly process is particularly worth mentioning. This was developed in close cooperation between expert teams of both companies.

„ With siMetrix, we have created a solution that greatly simplifies planning and assembly. Integration with digital planning tools saves time and costs while maintaining high quality “

says Ignac Jantelj, Managing Director of Sikla d.o.o..

The assembly teams were also convinced by siMetrix. They praised the clear and easy selection of components as well as the quick assembly.

With siMetrix, we have succeeded in developing an innovative and flexible assembly solution that meets the demanding requirements of the modern industry in every respect. The successful cooperation between Sikla and IMP PROMONT impressively demonstrates how the combination of know-how, experience, innovative strength and active teamwork can be used to realise demanding projects with the highest quality and efficiency. Because only together can we achieve the best possible results - **Together we build. siklasicher.**

Talking to Gorazd Poljanec, authorised signatory IMP PROMONT d.o.o.



From left to right: Karmen Reisenhofer (Sikla), Ignac Jantelj (Sikla), Gorazd Poljanec (IMP PROMONT) and Aleš Gjura (Sikla)

How would you rate the cooperation with Sikla?

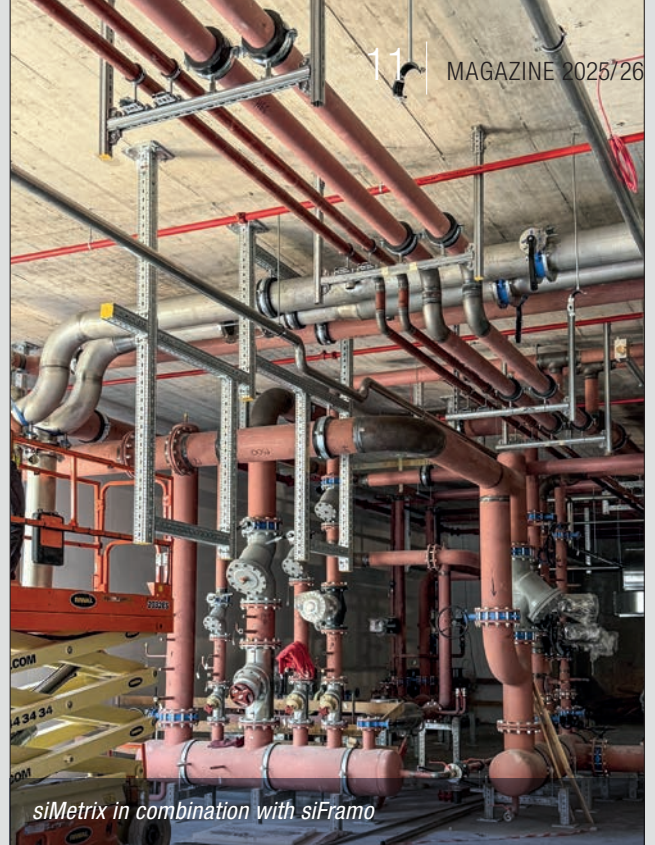
The collaboration was extremely professional. In particular, the ability to react quickly and flexibly to plan changes was crucial to the success of the project. The close collaboration of the expert teams from both companies resulted in a noticeable optimisation of time and space resources during installation.

Where did you first use siMetrix?

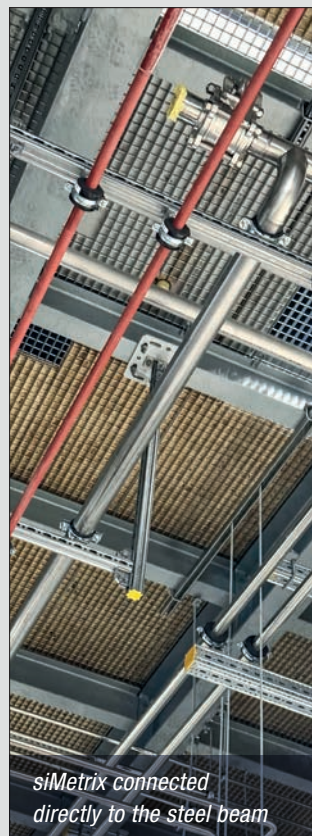
We used siMetrix in a complex pharmaceutical project. The early involvement of Sikla in the planning phase enabled faster preparation and implementation. A model that we are now successfully applying to other projects.

To what extent did the use of siMetrix contribute to the on-time project rollout?

Thanks to efficient planning and rapid assembly, we were able to gain valuable time for fine-tuning the installation details despite the tight time frame.



siMetrix in combination with siFramo



siMetrix connected directly to the steel beam



siMetrix U-frame for smaller media lines



siMetrix in construction for air conditioning on the roof



The siMetrix support system offers flexible solutions for a wide range of applications. Even complex requirements can be implemented efficiently with just a few components. **siMetrix** stands out with its easy handling and high adaptability.



3-dimensional mounting grid for areas with high installation density and when flexibility is required.



Stable connection for media columns. In combination with the levelling unit, it guarantees the correct position of the laboratory profile and the media column.



Compressed air supply



Attachment of cooling/cold pipes on the roof



Attachment of cooling/cold pipes on the roof