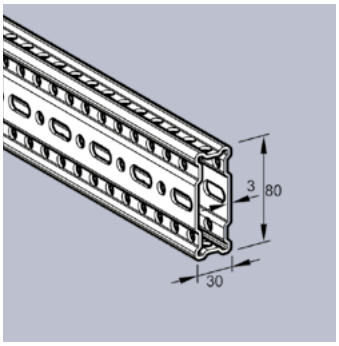
siFramo

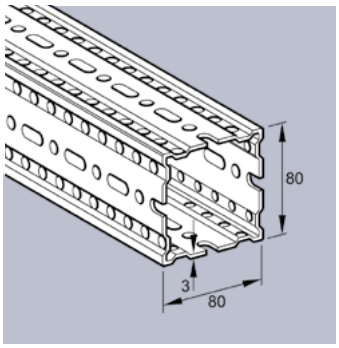
sikla

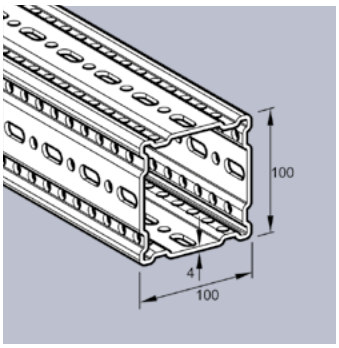
Modular Secondary Steelwork

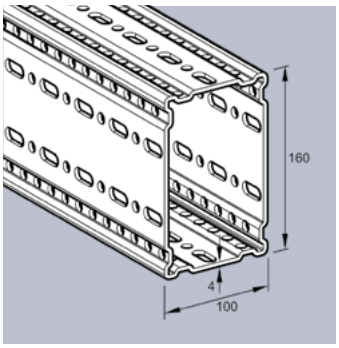
siFramo

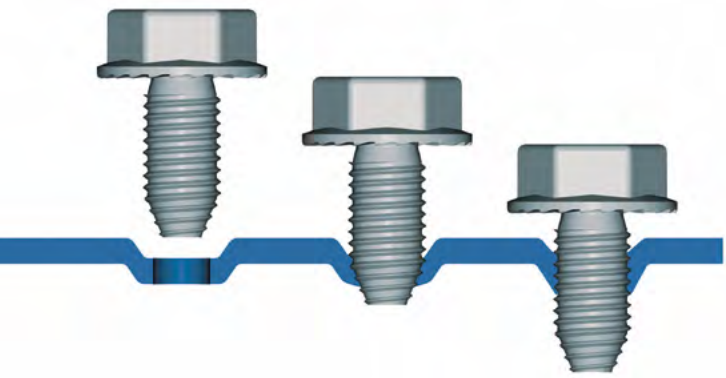
siFramo is a versatile, multi functional steel framing system that offers maximum flexibility using a compact range of off-the-shelf components. High load bearing and simple connection characteristics have been achieved by an intelligent geometry of hole- and slot patterns to both the beam sections and connectors. As a result siFramo can significantly reduce the self-weight of a steel frame and its assembly costs. siFramo can be fully implemented into the CAD process at planning stage.











No Hot Works, No Nuts, Washers or Back Plates – Just One Type of Screw

The assembly process of siFramo is based on one single type of fastener, a thread-forming screw called FLS. Using the right tool, one operative can create one screw-connection with one hand in less than 10 seconds. The thread-forming process is swarfless and creates a shake-proof connection whilst remaining removable and reusable.

Independently certified performance characteristics through ETA

An ETA (European Technical Assessment) is an independent, Europe-wide evaluation for assessing the performance characteristics of non-standardised construction products.

With the ETAs for the siFramo heavy-duty system, we are establishing a new industry standard. The characteristic values for static verification can be taken from the approval and applied safely with official certification by the renowned construction institute and official Technical Assessment Body (TAB) LUXIB. The CE marking of the siFramo components remains in place.


LUXIB

European Technical Assessment | ETA-21/0936 of 03.05.2024

General Part

Technical Assessment Body issuing the European Technical Assessment: LUXEMBOURG INSTITUTE FOR BUILDING AND TECHNOLOGY	
Trade name of the construction product	SIKLA FLS F
Product family to which the construction product belongs	Self forming screw for metal members and sheeting
Manufacturer	Sikla Holding GmbH Agydipiatz 3 4600 Thalheim bei Wels Austria
Manufacturing plant(s)	Plant 1 Plant 2 Plant 3 Plant 4
This European Technical Assessment contains	8 pages including 5 annexes which form an integral part of this assessment
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of	EAD 330046-01-0602 Fastening screws for metal members and sheeting
This version replaces	ETA-21/0936, issued on 14.08.2022

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ETA 21/0936 – 2024-05-03 – A2408-T2133-08 – page 1 of 8


LUXIB

European Technical Assessment | ETA-24/0471 of 21.08.2024

General Part

Technical Assessment Body issuing the European Technical Assessment: LUXEMBOURG INSTITUTE FOR BUILDING AND TECHNOLOGY	
Trade name of the construction product	SIKLA SiFramo for PRS
Product family to which the construction product belongs	Steel components for pallet racking systems
Manufacturer	Sikla Holding GmbH Agydipiatz 3 A-4600 Thalheim bei Wels Austria
Manufacturing plant(s)	Manufacturing plants of SIKLA
This European Technical Assessment contains	56 pages including 52 annexes which form an integral part of this assessment
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of	EAD 200059-00-0302 Steel components for pallet racking systems

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A2100633

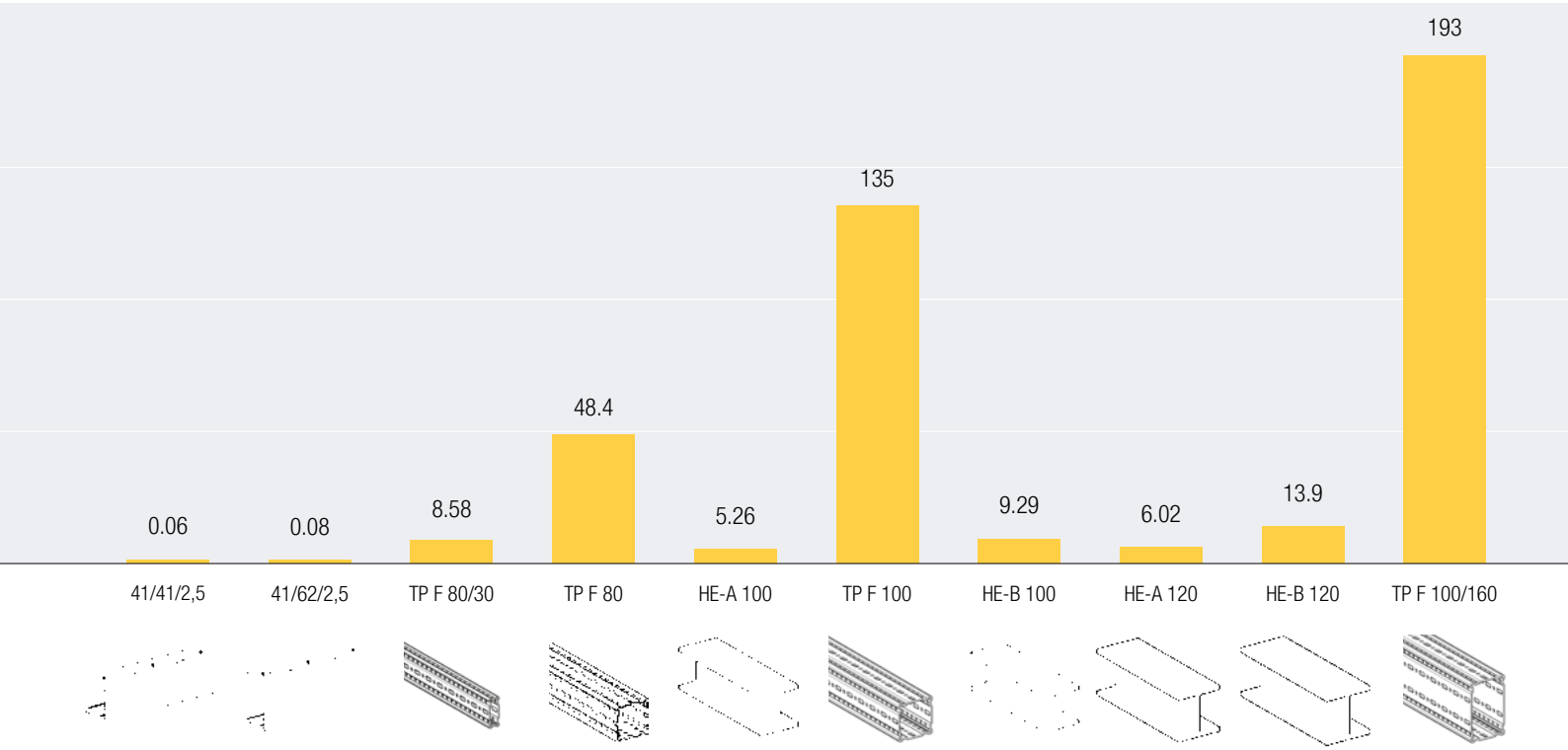
Torsional Resistance

Hot pipes generate friction force in the lateral direction also, which must be absorbed by the structural pipe support.

A closed hollow-box section is therefore the best choice. siFramo connection elements are designed to transmit high forces within a steel frame.

Torsional Rigidity

Comparison by moment of inertia I_z (cm^4)

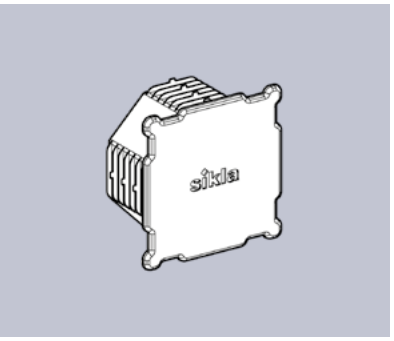


Sikla HCP – High Corrosion Protection

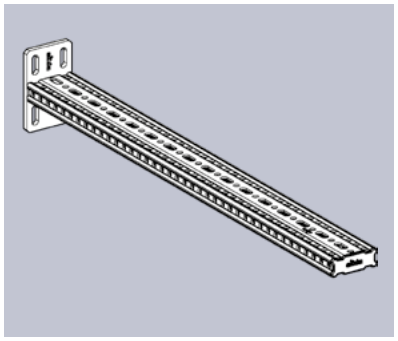
Standard siFramo components are hot-dipped galvanized and meet the requirements of corrosion categories up to C4.

siFramo Components at a Glance

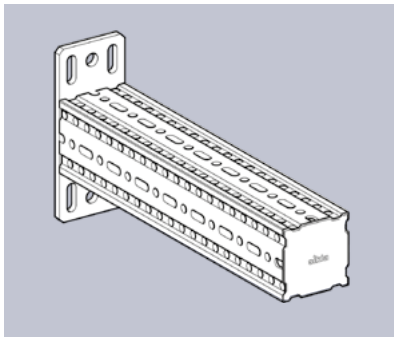
This compact range of off-the-shelf components allows for the assembly of all typical structural support scenarios:



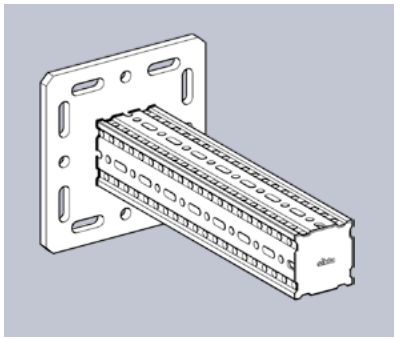
End Cap ADK F 80
End Cap ADK F 100



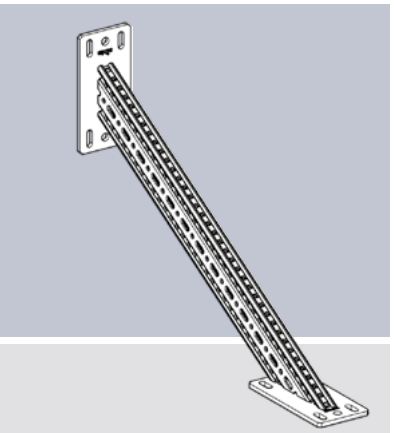
Cantilever Bracket AK F 80/30



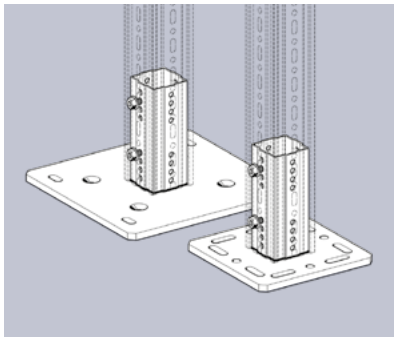
Cantilever Bracket AK F 80
Cantilever Bracket AK F 100



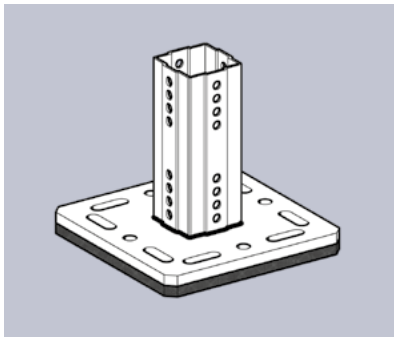
Beam Bracket TKO F 80
Beam Bracket TKO F 100
Beam Bracket TKO F 100/160



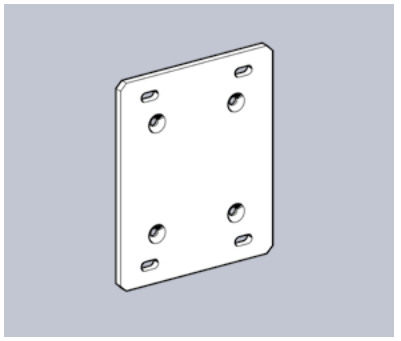
Bracing Arm SKO F 100



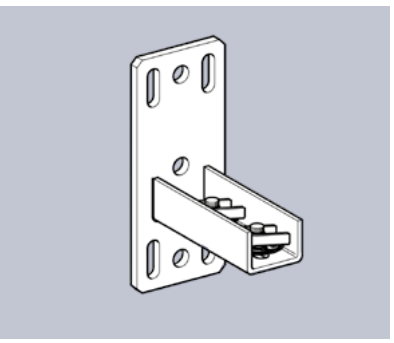
End Support WBD F 80
End Support WBD F 100
End Support WBD F 100/160



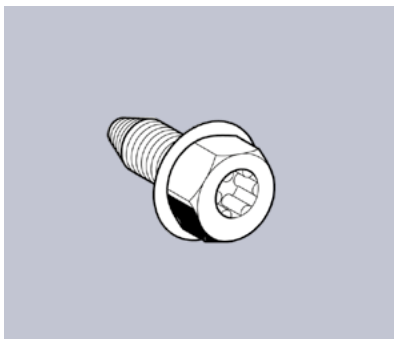
Insulated Foot Plate SHB F 80



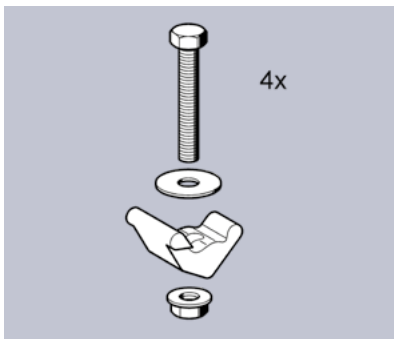
Joining Plate AP



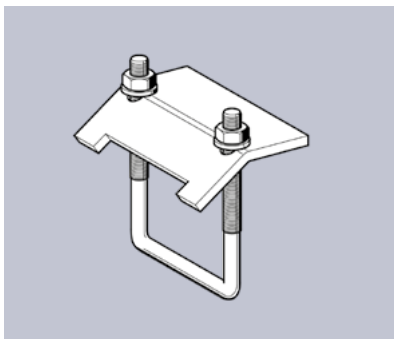
Channel Adapter SA F 80
Channel Adapter SA F 100



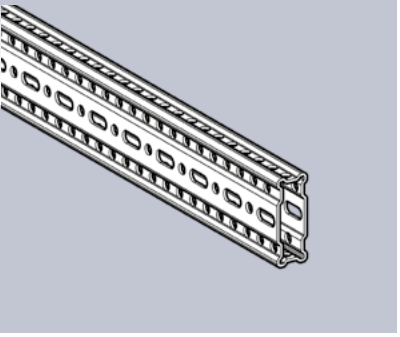
Self Forming Screw FLS F



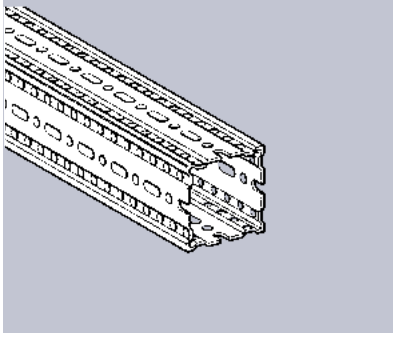
Assembly Set PS



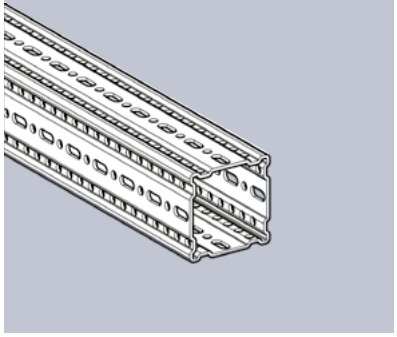
U-Holder SB F 80
U-Holder SB F 100



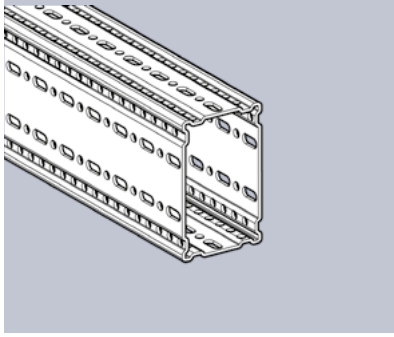
Beam Section TP F 80/30



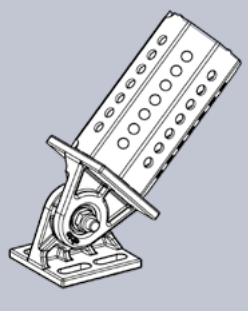
Beam Section TP F 80



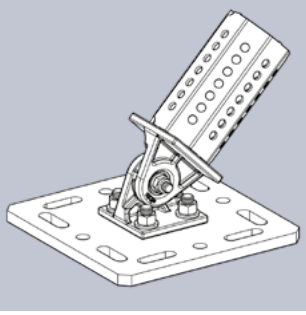
Beam Section TP F 100



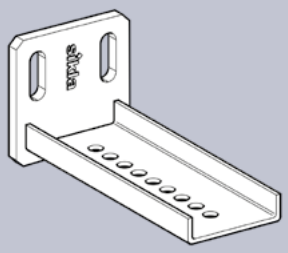
Beam Section TP F 100/160



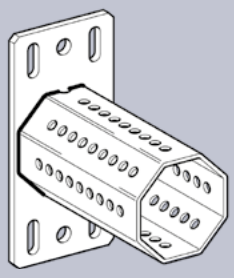
Pivot Joint GE F 80
Pivot Joint GE F 100
Pivot Joint GE F 100/160



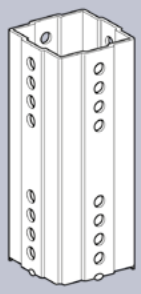
Pivot Joint GE F - ST F 80
Pivot Joint GE F - ST F 100



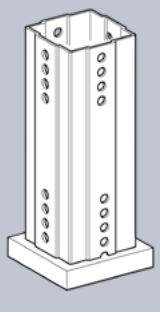
End Support STA F 80/30 E



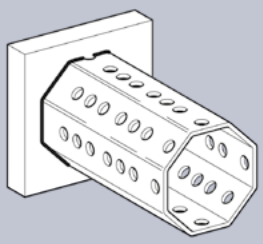
End Support STA F 80
End Support STA F 100



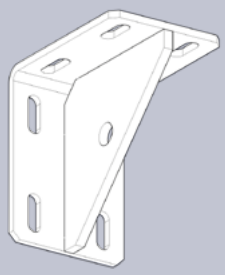
Welding Adapter ASA F 80 Square



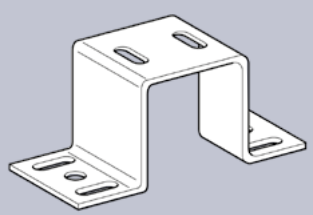
Welding Adapter ASA F 100 Square



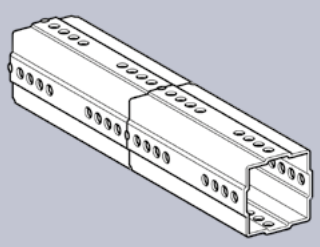
Welding Adapter ASA F 80 Octagon
Welding Adapter ASA F 100 Octagon



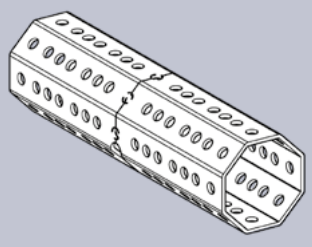
Corner Bracket WD F 100



Beam Section Holder TPH F 80
Beam Section Holder TPH F 100



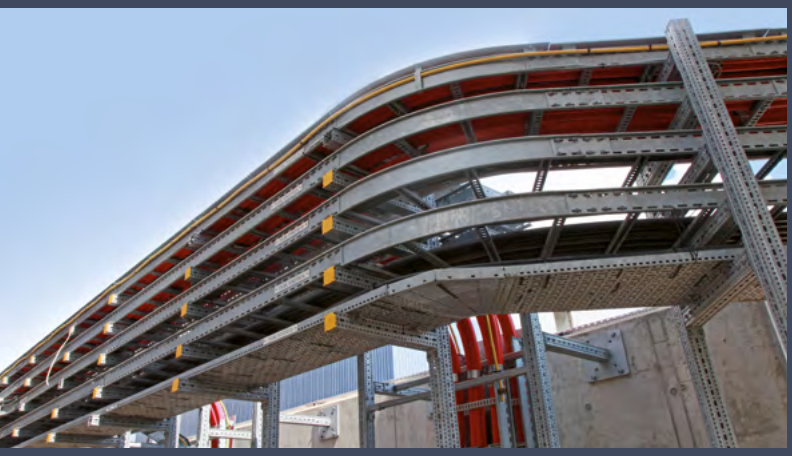
Square Coupling PK F 80



Octagonal Coupling PK F 80

The siFramo product range can be found in our e-catalogue at **www.sikla.co.uk**

siFramo – More Than Just Structural Pipe Support



Benefits at a Glance

- The only heavy-duty support system with an ETA

- Regulatory Compliance
- Stepless connection
- Self-forming screws, no washers and no nuts
- ‚Typicals' documented in the User Guideline, including loads and dimensions
- Adjustable to allow for revisions and building tolerances
- High load bearing by low-self-weight-structures
- Maximum variety of individual designs with just 3 main components
- Adaptation to all types of primary building structures
- No hot works – no clashes – no production downtime
- Recyclable after disassembly
- All standard parts are coated for outdoor requirements
- Other steel-framing systems such as strut can be easily connected

Added Benefits and Individual Services

Design Support

Sikla will support you at planning- and specification stage by dedicated design- and field engineers.

Software and Plug-Ins

CAD libraries and software plug-ins enable the integration of Sikla components into your detailed engineering process.

Customised Solutions

In the event that none of our standard products provide a suitable solution for your project, Sikla can develop project-/customer-specific design and fabrication. This can be an „Add-On“, i.e. a component to connect equipment to a siFramo frame or a customised connection plate to integrate your siFramo frame into the building.

Pre-assembly

Already more than 50% of siFramo support structures are supplied pre-assembled, labelled and delivered according to the specification drawings provided by the client. Alternatively, the material needed can be pre-cut and packaged by support reference to make component identification simple. The supports can then be put together on site.

Logistics

All siFramo steel sections and standard components are permanently in stock in the UK, Melbourne/Australia and in New Zealand.

On-site Technical Support

Sikla employs Field Engineers who support your site teams and sub-contractors as they use the product. This includes product training and trouble-shooting.

sikla

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Phone +49 7720 948 0

www.sikla.com

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