

Intelligent support planning –
fast, precise, innovative



SuCri®

The plugin for
efficient planning
in AutoCAD®
Plant 3D™ and
Advance Steel™

Made for plant and steel
construction professionals

Designed by engineers,
for engineers

 www.sucri.de

SuCri® - the Plugin for AutoCAD® Plant 3D™ and Advance Steel™

SuCri® is an innovative plugin for AutoCAD® Plant 3D™ that significantly simplifies the planning of pipe supports as well as primary and secondary steel structures.

Whether in the chemical, wastewater, or process industry – recurring planning tasks, such as the placement of pipe supports and steel components, can be completed up to **ten times** faster with SuCri®.

Thanks to manufacturer-based component libraries and automated workflows, day-to-day planning becomes noticeably more efficient. SuCri® makes **optimized, fabrication-ready steel planning real** – directly within Plant 3D™ or after exporting models to Advance Steel™.



Pipe support planning, secondary steel design, and fabrication drawings – all in one tool.

Cost Reduction

The time-consuming manual selection of suitable pipe supports and connection components, as well as the placement of these components, is no longer necessary. **Planners benefit from a time saving of up to a factor of ten.**



Investment Security

SuCri® is future-proof thanks to its open architecture and extendable manufacturer extensions, ensuring there is no dependency on proprietary workflows.



Error Prevention

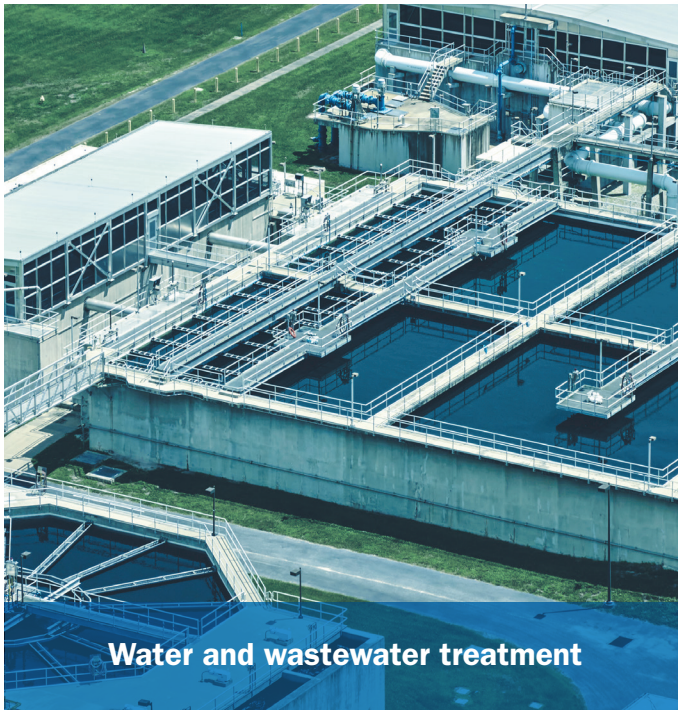
Integrated checks support planners during component selection. Administrators can define project-specific rules through the settings. Without SuCri®, in-depth knowledge of the individual manufacturers' components would be required.



The Planning Tool for Modern Plant Design

Efficiency, flexibility and digital integration have become essential in modern plant design. SuCri® sets new standards across numerous industries, from food and chemical processing to energy supply and water and wastewater industry.

The software impresses with its practical functional depth, scalable architecture and seamless integration into existing planning and design processes. Thanks to intelligent automation and component-based logic, SuCri® enables faster project execution while maintaining consistently high levels of quality and safety – even in complex system environments or retrofit projects. Users benefit from increased planning reliability, consistent data structures and end-to-end documentation.



SuCri® – Highlights



SuCri®

Functional intelligence for plant design

- ▶ Validation of components and verification of connections
- ▶ Component selection assistance based on planning context
- ▶ Accurate design of steel connections, including integration with existing structures
- ▶ Automated drawing generation
- ▶ Creation of bills of materials and fabrication documents

SuCri® was developed to significantly accelerate planning and design processes in industrial plant engineering while improving overall planning quality. The software combines industry-specific expertise with intelligent automation – efficient and field-proven. One of its core features is the **automated placement of primary supports**, clamping systems, insert strips, slide plates, adapters, and connectors based on predefined planning logic. This reduces manual intervention to a minimum and ensures consistent, standardized implementation throughout.

Integrated **validation of components and connection checks** help identify potential conflicts at an early stage. In addition, an **intelligent component selection assistant supports** precise decision-making – a noticeable relief in daily engineering tasks.

SuCri® also enables precise **planning of steel connections, including integration into existing structures**. **Automated drawing** generation and the creation of bills of materials and **fabrication documents** ensure consistent documentation from initial design to prefabrication and on-site installation. With SuCri®, you have an engineering tool that enhances planning reliability, shortens project cycles, and ensures quality down to the smallest detail – from the initial concept to the completed plant.

Benefits for Planners



Significant Time Savings Through Automation

- ▶ Before: Manual placement of primary and secondary steel elements requires numerous individual steps and adjustments.
- ▶ With SuCri® : Components are selected and automatically positioned or replaced correctly. This reduces modeling time by a factor of ten.



Seamless Integration with AutoCAD® Plant 3D™ & Advance Steel™

- ▶ Direct integration into existing Autodesk® workflows
- ▶ Automated generation of fabrication documents directly from the model



Simplified Collaboration & Improved Documentation

- ▶ Automated creation of drawings, material lists, and fabrication documents
- ▶ Direct adaptation to project-specific requirements
- ▶ Consistent data foundation for engineers, designers, and fabrication teams



Higher Planning Quality & Fewer Errors

- ▶ Standardized components and rule sets help minimize errors
- ▶ Detailed component library ensures precise planning and helps avoid on-site issues
- ▶ Dynamic adaptation to project changes without the need to manually update all elements



Faster Planning Phases

- ▶ Planners save valuable resources as designs and drawings can be created in significantly less time.
- ▶ Coordinated reporting functions accelerate the request and delivery process with manufacturers, who can directly process material and part lists.



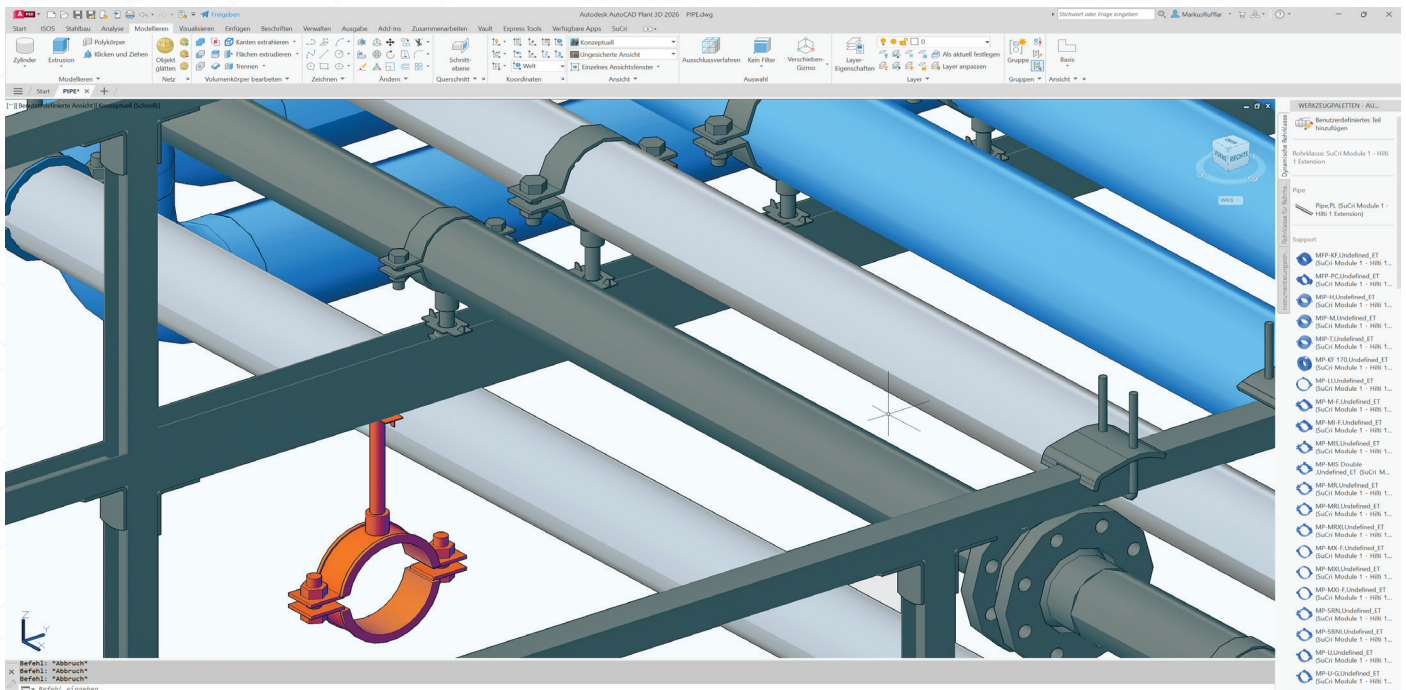
Flexible integration and customization with cloud-based Autodesk® solutions

- ▶ Expandable to meet specific customer requirements, e.g. with custom pipe classes
- ▶ Adaptable to various structural steel standards and internal company specifications
- ▶ Extensive settings for individual project control and configuration
- ▶ Compatible with Autodesk® Construction Cloud and BIM Collaborate Pro
- ▶ Supports centralized content folder usage for collaborative planning environments

More Efficiency, Less Effort!

SuCri® helps engineers and planners optimize their workflows and noticeably reduce planning effort. Through its integration with Autodesk® Plant 3D™ and Advance Steel™, it enables seamless, automated planning for both primary and secondary steel structures.

Overview of Core Functions



Basic Drawing Tool Functions

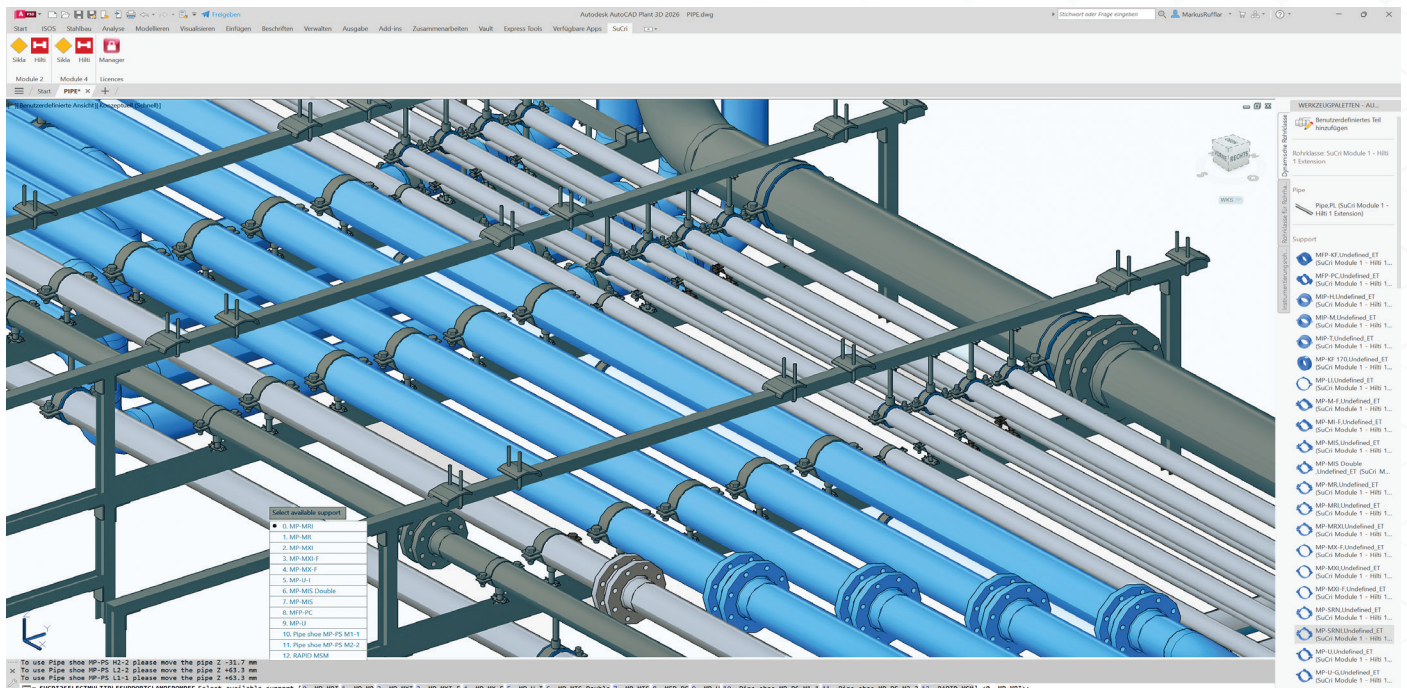
With SuCri®'s core functions, you gain access to extensive component catalogs from leading manufacturers in the field of pipe support systems. All components are Python-based and offer maximum performance.

The core functions include the following options:

1. Intelligent placement of clamping systems
2. Rotation of pipe clamps at any angle
3. Addition of insert strips
4. Adjustment of threaded rods on standard pipe clamps
5. Height adjustment of variable pipe shoes
6. Easy replacement of support types without repositioning
7. Integration of different materials
8. Color indication in case of incorrect placement
9. Extensions are available for the following manufacturers:

Sikla® , Hilti® , Bernecker, MPSS

Advanced Functionalities



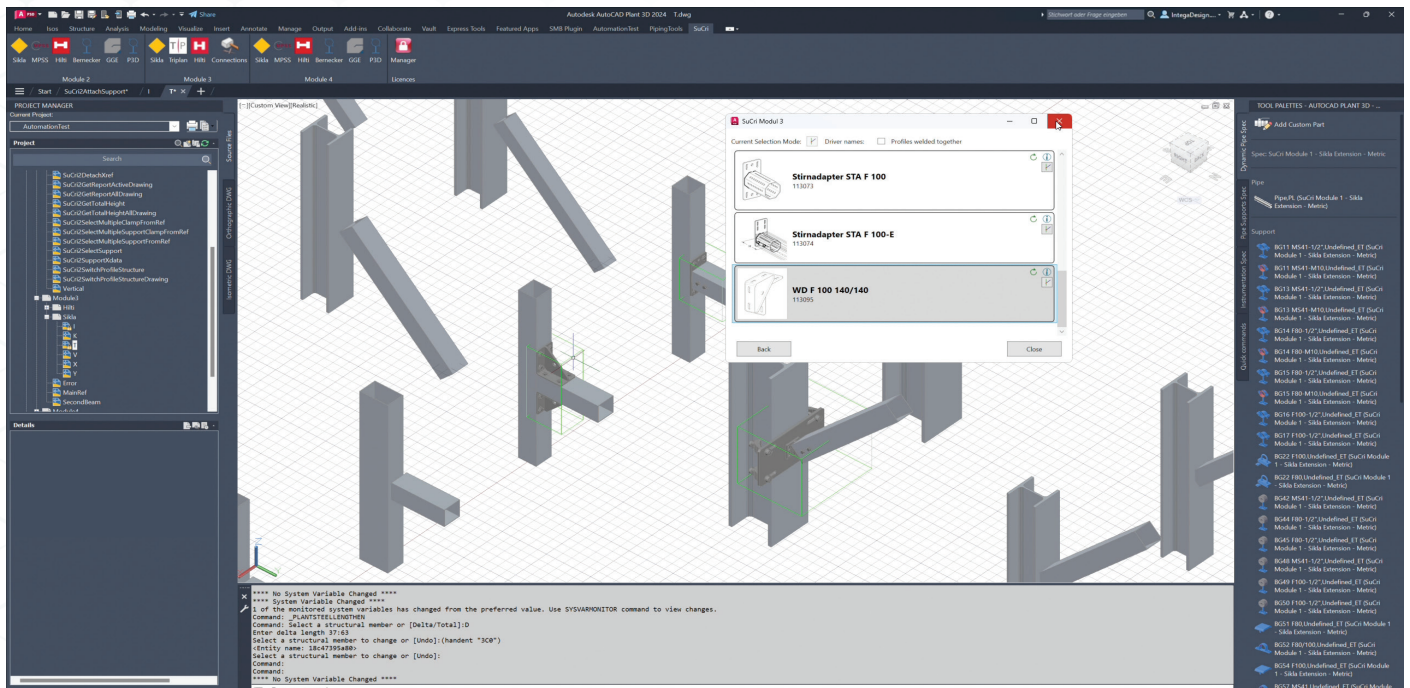
Advanced Functionalities

SuCri® provides powerful automation features (Turbo Tools), intelligent placement assistance, and support for defining component properties. It also includes tools for generating part lists and bill of materials.

The advanced functionalities include the following options:

1. Automatic placement of pipe-enclosing components and clamping systems for individual or multiple pipes and supports
2. Automatic alignment of component properties
3. Intelligent assistance for selecting required components
4. Simple and automated replacement of components
5. Automatic BOM creation
6. The advanced functionalities can also be applied to the standard supports in Plant 3D™.

Steel Structure Finalization



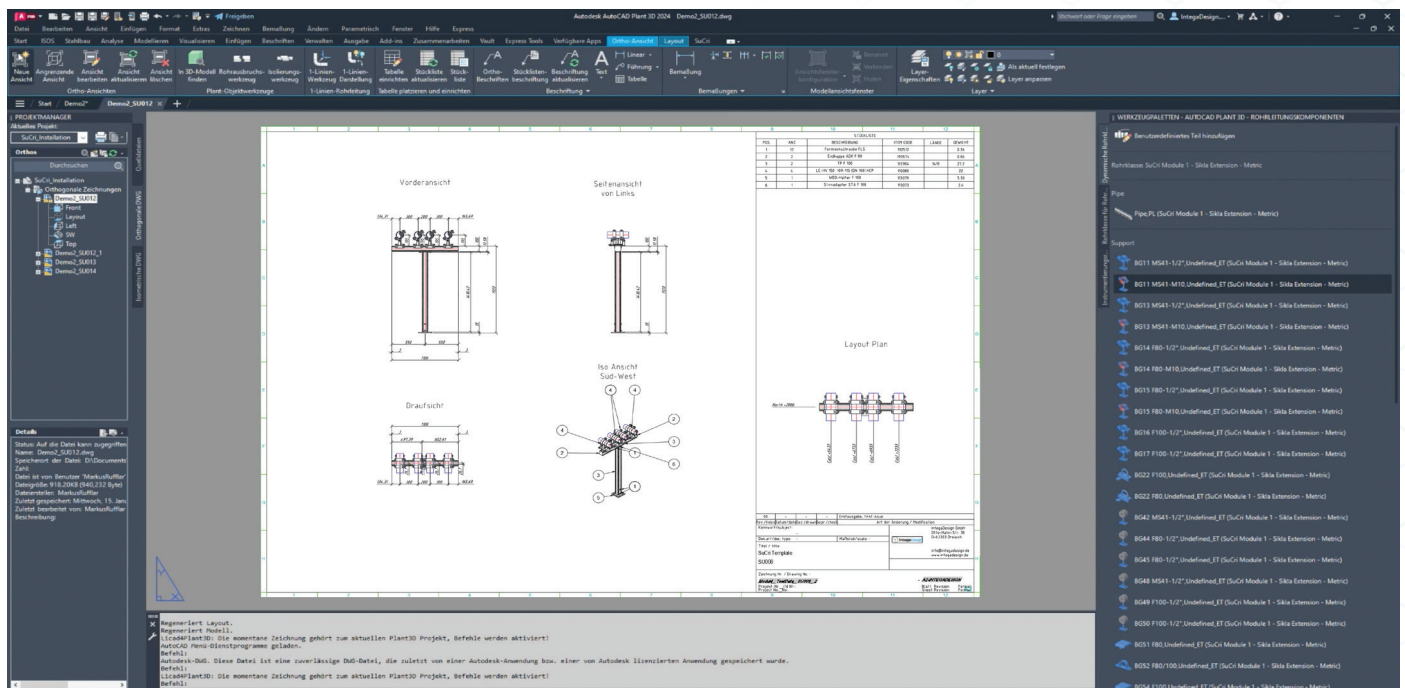
Functions for Steel Structure Finalization

This functional extension is designed for users of both Plant 3D™ and Advance Steel™. For the first time, it enables the detailed modeling of steel connections directly within Plant 3D™.

The functions for steel structure finalization include the following options:

1. Precise planning of connections within secondary steel structures, including integration with existing steelwork
2. Seamless import of pipe supports and steel profiles from Plant 3D™ into Advance Steel™
3. Extension and finalization of projects with near-automated generation of fabrication documents
4. Extensions available for the following manufacturers:
Sikla® and Hilti®

Drawing Derivation



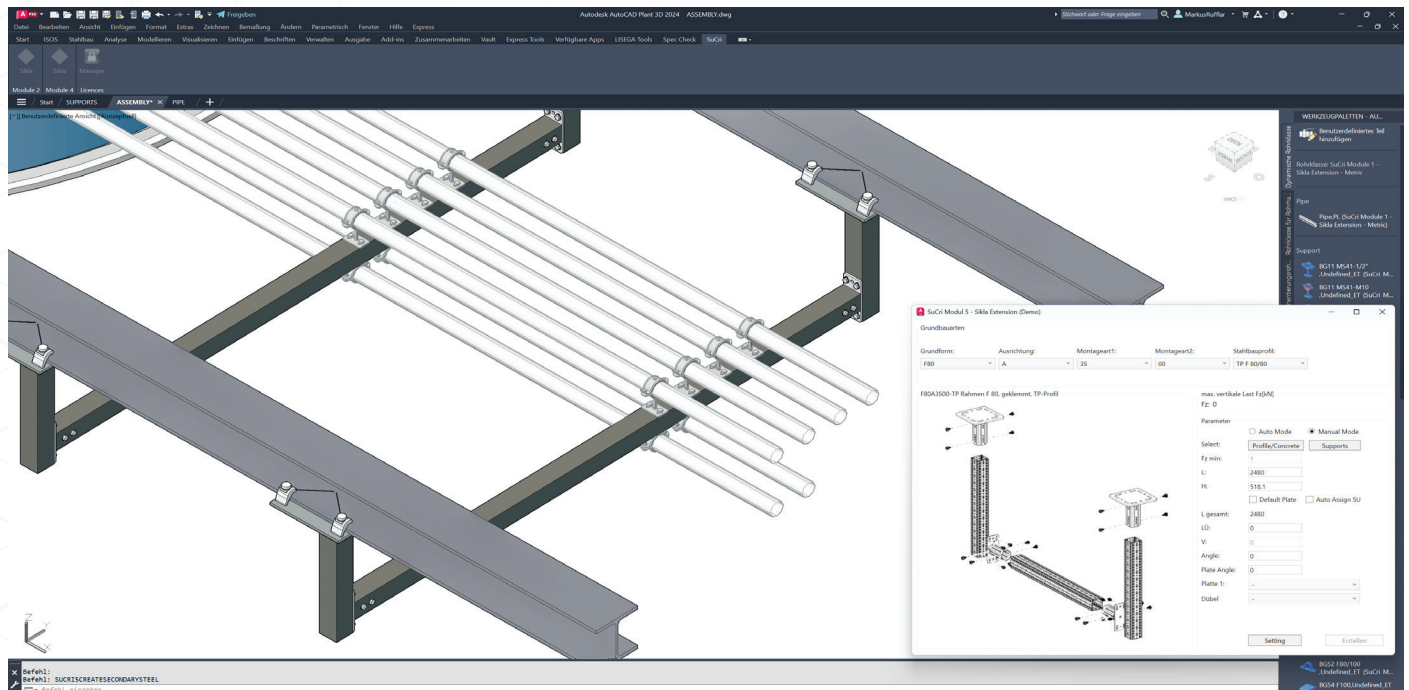
Drawing Derivation and manufacturing Documents

Extended functions for secondary steelwork in Plant 3D™

The extended functions for Plant 3D™ include the following options:

1. Near-automatic generation of drawings
2. Customizable templates based on project-specific requirements
3. Automatic BOM creation
4. Extensions available for the following manufacturers:
Sikla®, Hilti®, Bernecker and MPSS
5. These functions can also be applied to the standard supports in Plant 3D™.

Steel Structure Typical



Steel Structure Typical

Automated placement of standardized steel support assemblies

The steel structure typicals offer the following key functions:

1. Automatic generation of typical support configurations
2. Configurable mounting types
3. SU numbering and position system
4. Rule-based validation
5. Automatic placement of predefined connection plates and fastening elements

Conclusion

With its comprehensive range of functions, SuCri® offers a practical toolkit that covers every step from component selection to final documentation.

The combination of automation, validation and integrated planning helps engineers and designers carry out engineering processes with greater reliability, consistency and time savings. This applies from the initial component placement to rule-based steel structure finalization, even in complex scenarios or existing systems.

QR Codes

Further Information at a Scan

Here you'll find our latest content, links and channels related to SuCri® .
Simply scan the respective QR code to go directly to the corresponding page.

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Those who stop improving
have already stopped
being good.

(Philip Rosenthal, 1916 - 2001)

SuCri® is a brand of IntegaDesign GmbH.



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