SuCri (from version 25.1.1.1)

Installation & first steps

What is SuCri?

SuCri® is an innovative plug-in for AutoCAD® that **significantly simplifies the planning of pipe supports and primary and secondary steel structures**.

It is aimed at engineers and planners in plant construction and pipeline construction in the wastewater management, chemical, and process industries.

The very time-consuming manual selection of suitable support combinations and insertion of components is eliminated – the time required for the planner is reduced by a factor of 10.

Thanks to integrated manufacturer-based component catalogs and automatic placement, SuCri® enables efficient and precise planning.

SuCri® provides seamless integration in **Advance Steel™** to optimize steel construction planning.

With innovative features such as
- integrated validation of suitable connecting components,
- automatic placement of suitable connections for secondary steel construction,
- templates for bills of materials, processes, and drawing styles for generating manufacturing documents,

SuCri® stands for holistic and accurate design execution. It thus perfectly complements the functionalities of Plant 3D™ and Advance Steel™.

First Steps

Step 1: Make sure you have activated a valid license. (Pull)

Step 2: Copy the supplied pipe classes into your current project.

- Open the **project manager**, navigate to **Pipe classes** and right-click on the text and then select "**Copy pipe classes to project**...".
- Navigate to your content folder and load the supplied pipe classes from the Cpak IntegaDesign folder into the project.

Step 3: Set the SuCri pipe class active

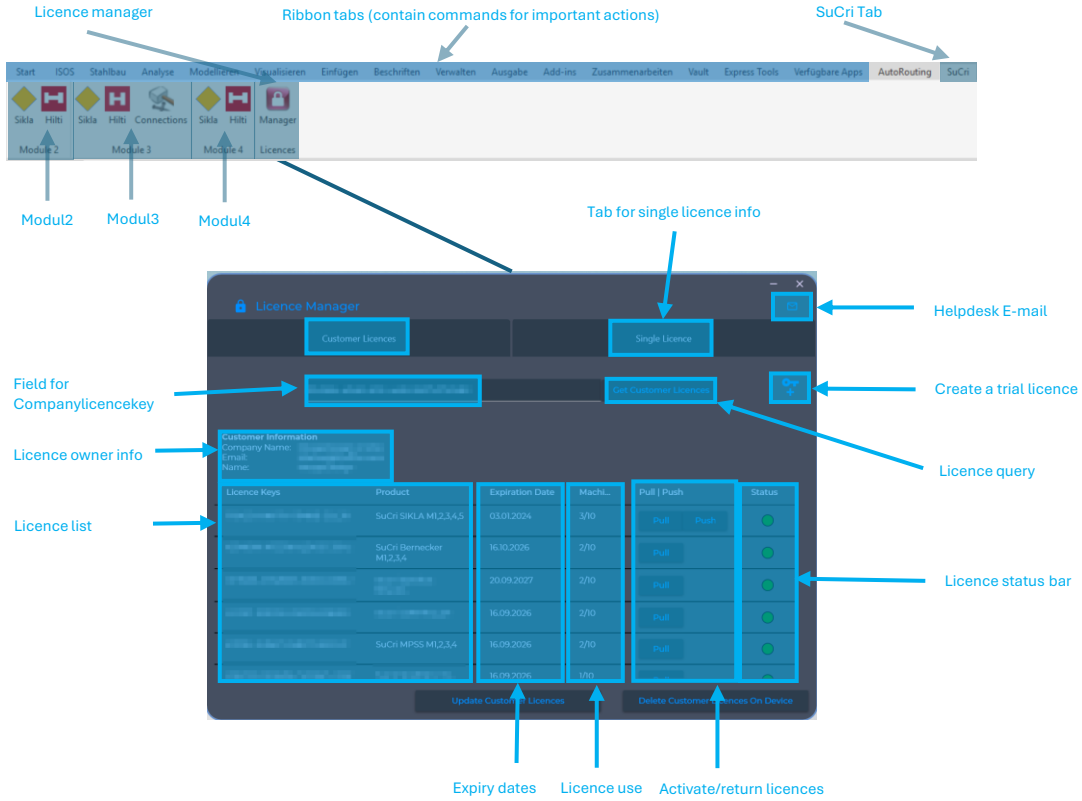
- In the ribbon **Home -> Insert Part**, select the pipe class and use SuCri.

Do you need further help?

SuCri Knowledge base	https://knowledgebase.integadesign.de/en/userguide
SuCri Web page	https://integadesign.de/en/sucri
SuCri Helpdesk	helpdesk@integadesign.de
SuCri Demo video	Link
IntegaDesign CAD Blog	https://blog.integadesign.de/en/cad-blog
Consulting:	https://integadesign.de/contact-us

Ribbon and Licence manager

Understanding the user interface



Using the Licence Manager

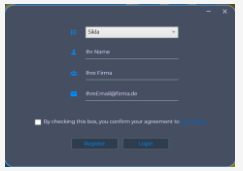
- Open the **licence manager.**
- Enter your key in the **Company license key** field.
- Click on the button „**Get Customer Licences**".
- Navigate in the **licenc list** to the desired product.
- Click in the respective line on **Pull**.
- A **Push** button should now appear and the number of machines should have changed.
- If you want to release the license to another user, simply press Push.

If some licenses have a red status, this may be due to the following reasons:

- The licence has expired (Expiration Date).
- Maximal license places are already in use.
- The licence was blocked by IntegaDesign GmbH.

Creating a trial licence

After installation, you should see this window directly. Otherwise, click the key in the License Manager as shown above.
Enter your information and read the terms of use. Then, check the box to confirm that you have read and understood the terms of use. Then, click Register.



Installation

A quick start guide

Module 1: Installation

- Select your desired extensions in the dialog.
- Specify the correct content path for installation.
- Run the installation.
- Start Plant3D and activate your licence.
- Load the pipe classes into your project (see first steps on the left side)
- Place a component in the model space.

Module 2: Installation

- Select your desired extensions in the dialog.
- Start Plant3D and activate your licence. Check if you see the corresponding icon in the ribbon bar for Module2.
- Test some Modul2 features, e.g. Turbo Tools and Dynamic Properties.

Module 3: Installation

- Select your desired extensions in the dialog and continue with the installation.
- Navigate to %Appdata%\IntegaDesign GmbH\SuCri\Modul3 und run the patcher (SuCri_AS_DB_PATCHER.exe) there and follow the instructions. If you have already installed Modul3, we recommend that you first select option 6 in the last question.
- Please run the patcher again and then select option 5.
- If you have already installed another extension for Modul3, it is sufficient to simply select option 3 in the patcher.

- **!!! Attention !!! If you are working with Advance Steel 2025+, it is mandatory to download from the folder**
- %Appdata%\ Autodesk\ApplicationPlugins\SuCri_Modul3.bundle\Binaries\2025 the file „IntegaDesign.Sucri.Drivers.dll" in dthe local path C:\Program Files\Autodesk\AutoCAD 2025\ADVS or copy to C:\Program Files\Autodesk\AutoCAD 2026\ADVS. (This requires admin rights.)
- Start Advance Steel and activate your licence. Check if the corresponding icon is displayed in the ribbon bar.
- Then check if you can insert the profiles and connections as shown in the demo videos.

Module 4: Installation

- Select your desired extensions in the dialog.
- Start Plant 3D and activate your licence. Check if you see the corresponding icon in the ribbon bar for Module4.
- Set up your ortho template with the appropriate views as shown in the demo videos.
- Assign an SU number using the secondary steel construction functions and derive a first drawing.

Tipp:

The default ortho template of a Plant 3D project is located within the project in the folder „Orthos\Styles\Default". There you will find "Ortho - A1 -Color Dependent Plot Styles.dwt", which you can modify as desired.

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Commands

Module 2
General commands

Console command	Description
BerneckerForm	Opens the Bernecker extension interface
GGEForm	Opens the Griesemann extension interface
HiltiForm	Opens the Hilti extension interface
LicenseManagerForm	Opens the License Manager interface
MPSSForm	Opens the MPSS extension interface
P3DForm	Opens the P3D extension interface
SiklaForm	Opens the Sikla extension interface
SuCri2AlignFace	Aligns steel components to a reference plane
SuCri2AttachDoubleSupport	Customer function
SuCri2AttachSupport	Creates a logical assembly unit (SuNo)
SuCri2AttachSupportWithRef	Creates a logical assembly unit (SuNo) with XREF‘s
SuCri2AutoAddPlate	Places a plate automatically (MPSS extension)
SuCri2AutoAddScrewForPlate	Places matching screws automatically (MPSS extension)
SuCri2AutoSelectClamp	Automatically places a single clamping system
SuCri2AutoSelectMultipleClamp	Places multiple clamping systems automatically
SuCri2AutoSelectMultipleSupport	Places multiple supports automatically
SuCri2AutoSelectMultipleSupportClamp	Places multiple mounts + clamping systems automatically
SuCri2AutoSelectSupport	Places a single support automatically
SuCri2AutoSelectSupportClamp	Places a single support + clamping systems automatically
SuCri2CleanDummyParts	Customer function
SuCri2DetachAllXref	Detaches all attached Xrefs from an assembly (SuNo)
SuCri2DetachDoubleSupport	Customer function
SuCri2DetachSupport	Detaches components from an assembly (SuNo)
SuCri2DetachXref	Detaches selected Xref from an assembly (SuNo)
SuCri2DynamicPropertiesDWG	Modifies clamp-specific properties of primary bearings in active DWG
SuCri2DynamicPropertiesProject	Modifies clamp-specific the properties of the primary bearings in the project
SuCri2ExportPrimarySupport	Exports the primary bearings in active DWG
SuCri2ExportPrimarySupportForSelection	Exports the selected primary bearings in active DWG
SuCri2GetReportActiveDrawing	Generates an MTO report from active DWG
SuCri2GetReportAllDrawing	Generates an MTO report of the entire project
SuCri2GetTotalHeight	Generates a height report from active DWG
SuCri2GetTotalHeightAllDrawing	Generates an height report of the entire project
SuCri2LoadDynamicProperty	Opens a dialog to load the Dynamic Properties Mapping Table
SuCri2LoadSetting	Opens a dialog to load the M2 settings
SuCri2MPSSMTOExportDWG	Generates an MTO report from active DWG (MPSS extension)
SuCri2MPSSMTOExportProject	Generates an MTO report of the entire project (MPSS extension)
SuCri2MultiPosNumbers	Customer function
SuCri2OpenLanguageMapping	Opens a dialog for loading the translation table for parts lists
SuCri2ReplaceExistingSupportDWG	Replaces all primary bearings according to mapping in active DWG.
SuCri2ReplaceExistingSupportProject	Replaces all primary bearings according to mapping in the entire project
SuCri2ReverseMPSSBolt	Turns the screws 180° (MPSS Extension)
SuCri2SelectDoubleSupport	Customer function
SuCri2SelectMultipleClampFromRef	Places multiple clamping systems in combination with XREF automatically
SuCri2SelectMultipleSupportClampFromRef	Places multiple supports + clamping system in combination with XREF automatically
SuCri2SelectMultipleSupportFromRef	Places multiple mounts in combination with XREF automatically
SuCri2SelectSupport	Marks all components of an assembly (SuNo)
SuCri2SupportSnapPoint	Switch to toggle additional snap points
SuCri2SupportXdata	Displays information about the assembly (SuNo) in the console
SuCri2SwitchProfileStructure	Converts selected steel profiles into possible pipe class profiles
SuCri2SwitchProfileStructureDrawing	Converts all steel profiles into possible pipe class profiles
SuCri2UpdateDummyParts	Customer function
SuCri2UpdateDWGPropertiesFromSpec	Resets the properties of the primary bearings in the active DWG
SuCri2UpdatePropertiesFromSpec	Resets the properties of the primary bearings in the entire project
SuCriAutoPullLicense	Controls the automatic activation of licenses when starting Plant3D/Advs
SuCriSendSupportRequest	Offers the possibility to quickly send an error report to the helpdesk
SuCriShowLog	Opens a log file
LicenseManagerForm	Opens the license manager form
SuCri2CopyProps	Copies Values from one property to another

Green = extension specific functions
Blue = customer specific function
Red = Debug or obsolete
Purple = Features only in Plant3D

Module 3
General commands

Console command	Description
LicenseManagerForm	Opens the License Manager interface
SuCri3BatchUpdateBlocks	Updates all existing SuCri blocks in active DWG
SuCri3BatchUpdateConnections	Updates all existing connections in active DWG
SuCri3DrawBeamCS	Draws beam coordinate system of a selected beam
SuCri3DrawGridToLayoutPlan	Draws an axis plan on an existing drawing
SuCri3ExportAnchors	Generates an MTO report of all anchor positions
SuCri3ImportSupports	Opens a dialog for importing the primary supports fromPlant3D
SuCri3MoveConnection	Moves placed connections
SuCri3ReloadData	Reloads the connection resources from the bundle
SuCri3SelectDetailView	Debug function
SuCri3SelectionOrderForOldPart	Customer function (obsolete)
SuCri3SetAutoWeld	Sets the automatic welding of all components (On/Off)
SuCri3SetGridReference	Creates a grid reference in the 3D model
SuCri3SetItemCodes	Updates the article numbers and profile lengths
SuCri3SetLocationPoint	Creates a position point
SuCri3SetProfilesWeldedTogether	Global variable for “Profiles Welded together” in the Connection dial.
SuCri3SetTolerance	Provides the ability to set a tolerance for connections
SuCri3ShowFormHilti	Opens the Hilti extension interface
SuCri3ShowFormSikla	Opens the Sikla extension interface
SuCri3ShowFormTriplan	Opens the Triplan extension interface
SuCri3ShowLog	Opens the log file
SuCri3ShowSelectConnection	Opens the connections interface
SuCri3UpdateLocationPoint	Updates the coordinates of the position point
SuCri3ValidateProfileLength	Checks all profile lengths and marks profiles that are too long in red
SuCri3DynamicPropertiesDWG	Modifies Properties in active DWG acc. ItemCode
SuCri3DynamicPropertiesProject	Modifies Properties in active Project acc. ItemCode
SuCri3LoadDynamicProperty	Opens the Dialog to load the Mapping Table
SuCri3MoveConnection	Moves Connections on the beam axis
SuCri3ShowConnectionsBox	Toggle to control the visibility of the connectionboxes

Module 4
General commands

Console command	Description
BerneckerFormF4	Opens the Bernecker extension interface
GGEFormF4	Opens the Griesemann extension interface
HiltiFormF4	Opens the Hilti extension interface
LicenseManagerForm	Opens the License Manager interface
MPSSFormF4	Opens the MPSS extension interface
P3DFormF4	Opens the P3D extension interface
SiklaFormF4	Opens the Sikla extension interface
SuCri4AttachSupport	Creates a logical assembly unit (SuNo)
SuCri4AttachSupportWithRef	Creates a logical assembly unit (SuNo) with XREF‘s
SUCRI4ChangeAllViewScale	Changes the scale factor of existing views
SUCRI4ChangeViewScale	Changes the scale factor of a view
SuCri4CheckSuCriDrawing	Debug function
SuCri4DetachAllXref	Detaches all attached Xrefs from an assembly (SuNo)
SuCri4DetachSupport	Detaches components from an assembly (SuNo)
SuCri4DetachXref	Detaches selected Xref from an assembly (SuNo)
SuCri4HideAllCenterLine	Hides all centerlines in a drawing
SuCri4LoadSetting	Opens a dialog to load the M4 settings
SUCRI4PlantOrthoAnnotate	Labels a selected view with ortho annotations
SuCri4PlantOrthoCreateMultiple	Creates a drawing of an assembly (SuNo)
SuCri4PlantOrthoCreateMultipleSU	Creates multiple drawings of selected assemblies (SuNo)
SUCRI4PlantOrthoCustomAnnotate	Labels a selected view with custom annotations
SUCRI4PlantOrthoDimension	Automatically creates dimensions for a selected view
SuCri4PlantOrthoDrawArea	Sets the drawing areas for the drawing template
SuCri4PlantOrthoUpdate	Updates the selected view of the active drawing
SuCri4PlantOrthoUpdateAllView	Updates all views in the active drawing
SuCri4SelectFrontView	Specifies the front of an assembly (SuNo)
SuCri4SelectSupport	Marks all components of an assembly (SuNo)
SUCRI4SetOrthoScale	Sets the scale of a view
SuCri4ShowSUFrontView	Shows the front views of an assembly with red areas
SuCri4SupportXdata	Displays information about the assembly (SuNo) in the console
SuCri4ShowOrthoCube	controls the display of the view

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