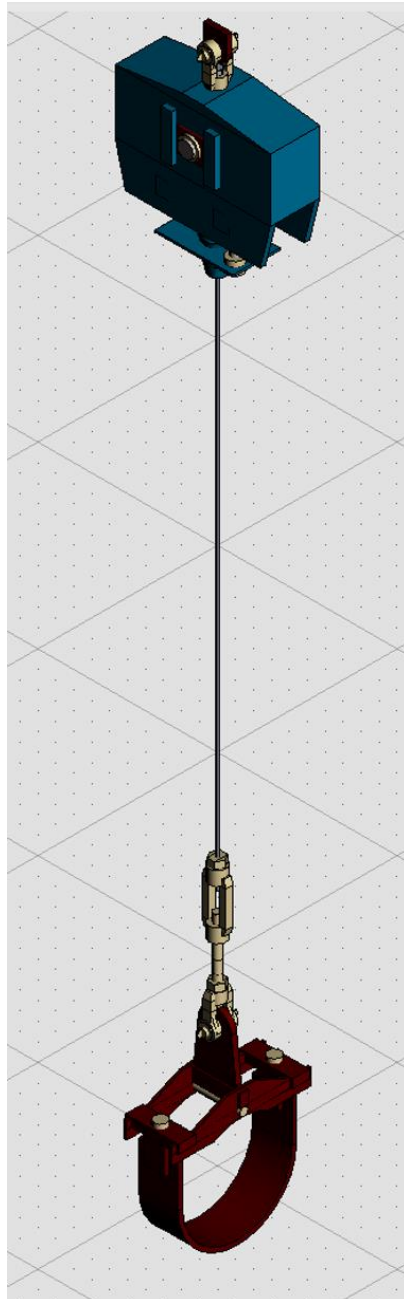


# LISEGA Plugin for Tekla Structures



Version 11.1.0.9

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## Introduction and requirements

The plugin is available for Tekla Structures versions 2019 and higher

Tekla Structures must be installed before starting the installation of this plugin.

Our software LICAD 11.1 must be installed on the computer to use the plugin.

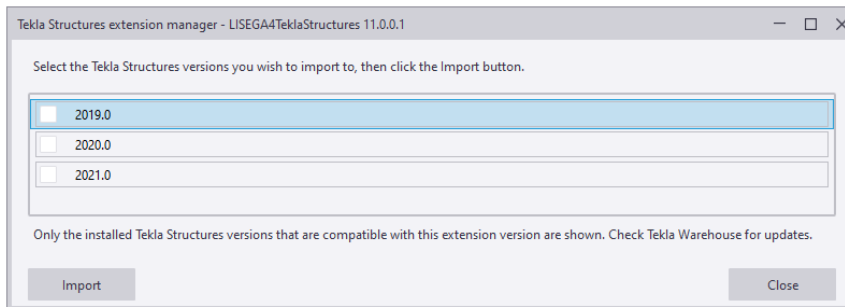
## Installation

The Tekla Structure Extension Package (LISEGA4TeklaStructures\_V\_11\_1\_0\_9.tsep) is the installation file. Double click on it will start the installation.

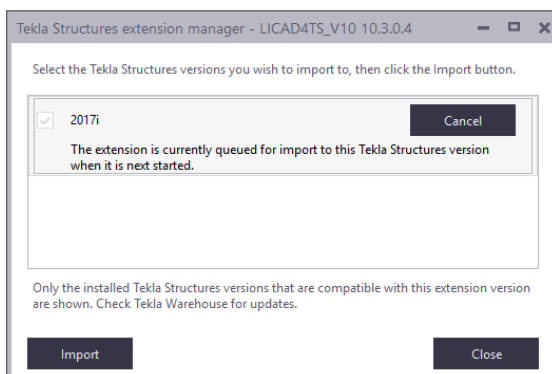
## Tekla Structure Extension Package installation

### Installation for Tekla Structures

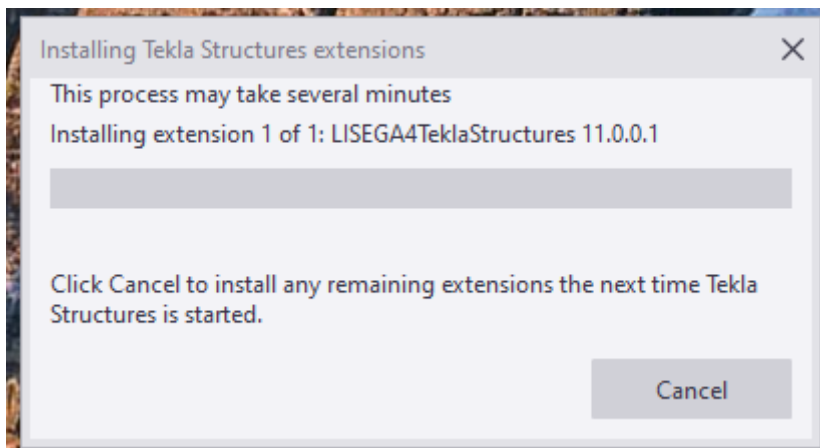
A double click on the .tsep file will open the Tekla Structures extension manager:



Select the versions where the extensions should be installed to:



Tekla Structures will show an installation information during the next start that the plugin will be installed.



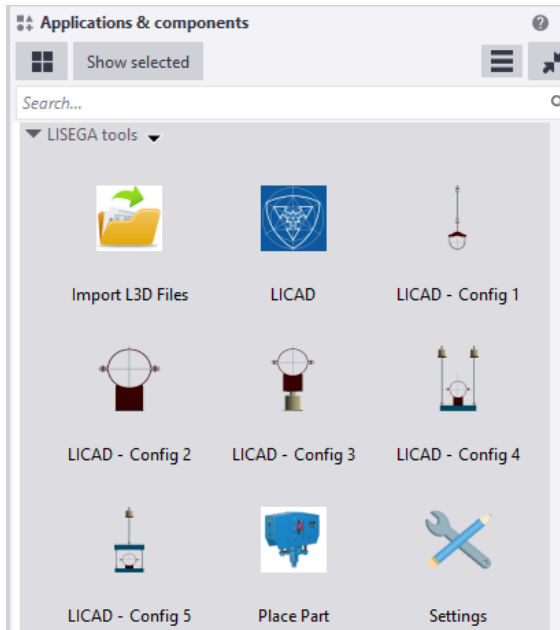
No additional configuration is needed.

## LISEGA catalogue 2020

Our catalog 2020 is added to the Applications & components library:

## LISEGA tools

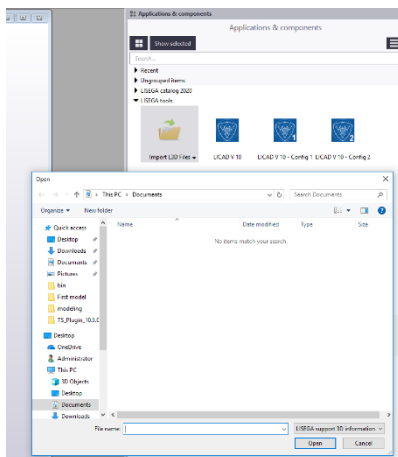
Beside the catalog there are also a few utilities installed.



### Import L3D files


Our software LICAD can create complete supports and export the generated supports as L3D file. The tool „Import L3D files“ is used to generate 3D models from the data inside a L3D file.

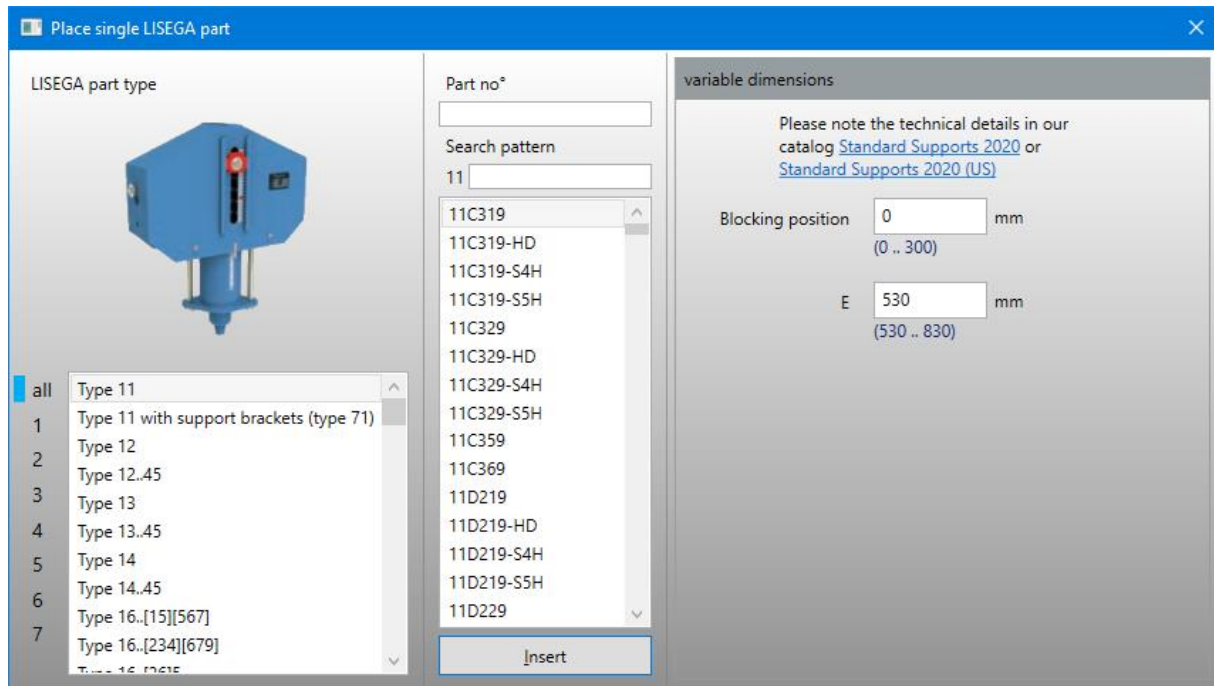
The tools will only ask for a L3D file to open:



The tool will create the support directly after the click on the button “Open”.

### Place part

Our catalog 2020 is also included. You can use the “Place part” tool  to select the wished part and define its necessary properties:



At the left side you can pre-select the product group (All, 1, 2, 3, ..) if you like, but you must select a type (Type 11, Type 12, ...) to get the list of parts of that type (e.g.: 11C319, ...).

After you selected a part (here: 11C319) the possible properties and its value range is shown on the right side of the dialog. Enter any valid value or use the default values.

To insert the part press the button "Update"

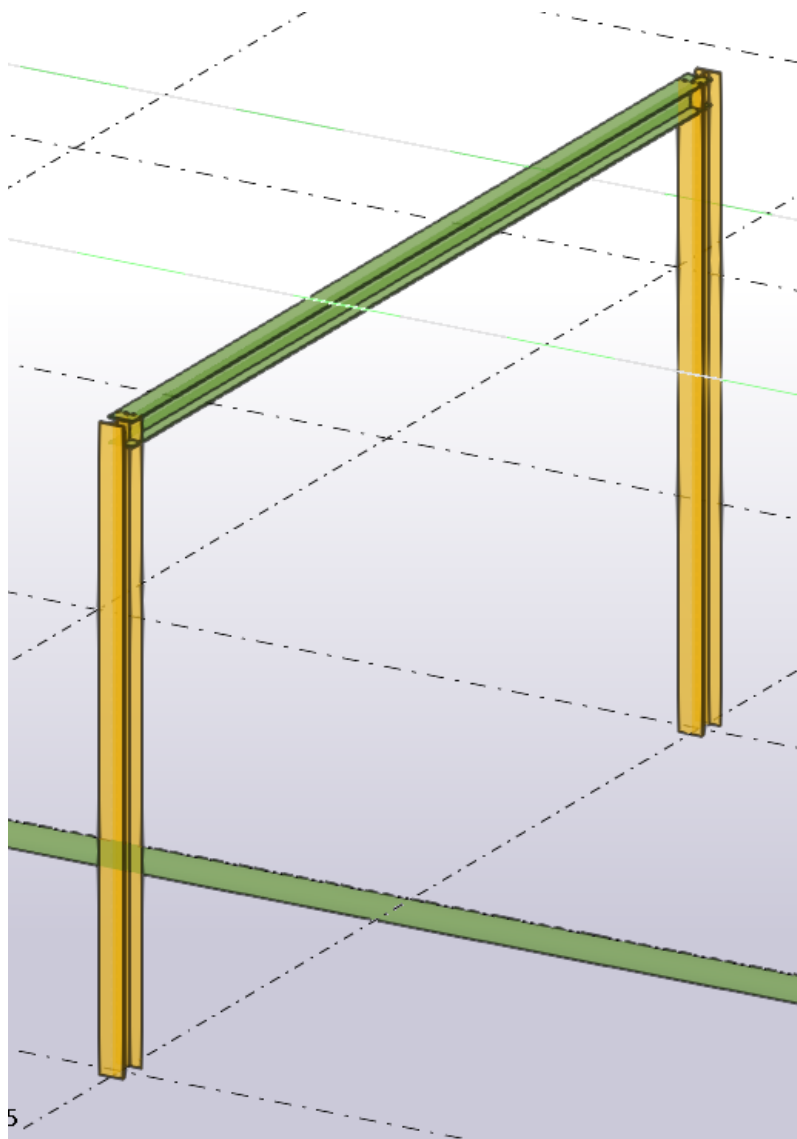
### LICAD tools

All LICAD tools will start an interactive creation of a support. The first steps are to define the kind of support and its geometry. This is done inside Tekla Structures. The tool will start our software LICAD automatically after these steps. The data (pipe diameter & geometry) is transferred to LICAD. Only the missing input data must now be entered in LICAD. Pressing the button „Next“ (Green arrow button) will close the LICAD window and the support is send back to the plugin.

The plugin creates now the 3D model of the support in Tekla Structures.

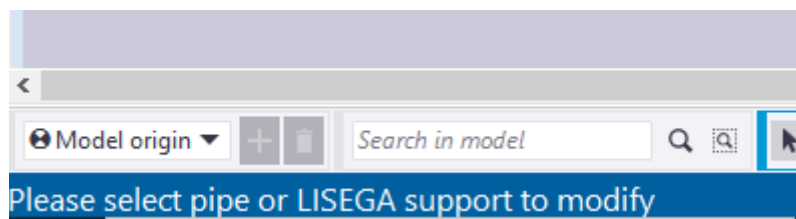
Example:

Starting point (a pipe and some steelwork)

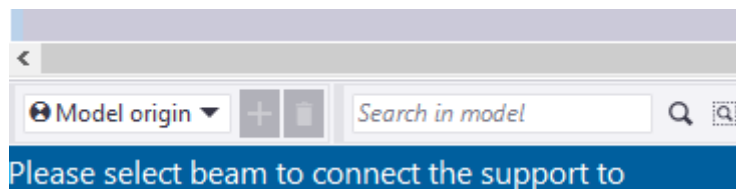


Start the LICAD macro

The first step is to select the pipe:



After that the command asks for the beam where the support should be connected to:



Now our Pipe Design program LICAD is started. Here it is necessary to complete the required input values:

**Licadv11 (11.1.0.125) - [Projekt: LICAD V11 - OLE-Server]**

1024 -3- 20000 30.06.2022

**Sektion Lastannahme**  
☒ Statisch ☐ Dynamisch ☐ Kalt

U-Positionsnr.: Licad4TS\_61717  
 Zeichnungsnr.:  
 Berechnungspunkt:

15

**6900**  
**4800**  
**-145**

**Last [ kalt ]**  
 98 [ KN ]  
 Hydrolast 0 [ KN ]  
 Rohrdurchmesser 290 [ mm ]  
 Dämmung 100 [ mm ]  
 Temperatur 457 [ °C ]  
 Lateral 0 [ mm ] (Y)  
 Horizontal 0 [ mm ] (X)  
 Vertikal 94 [ mm ] (Z)

**Oberer Anschluss**  
 Typ 73 Anschweißbügel

**Konstanthänger-Bauform**  
☐ Flache Bauform

**Unterer Anschluss**  
 Standard Rohrschellen

**Produktergänzungen für Rohr-lager und schellen**  
 Standard

**Vorauswahl Konstanthänger** **Vorauswahl Federhänger**


**Rohrriichtung**  
☐ Horizontal ☐ Vertikal ☒ Beide

**Einheiten**  
 Metrisch (kN)

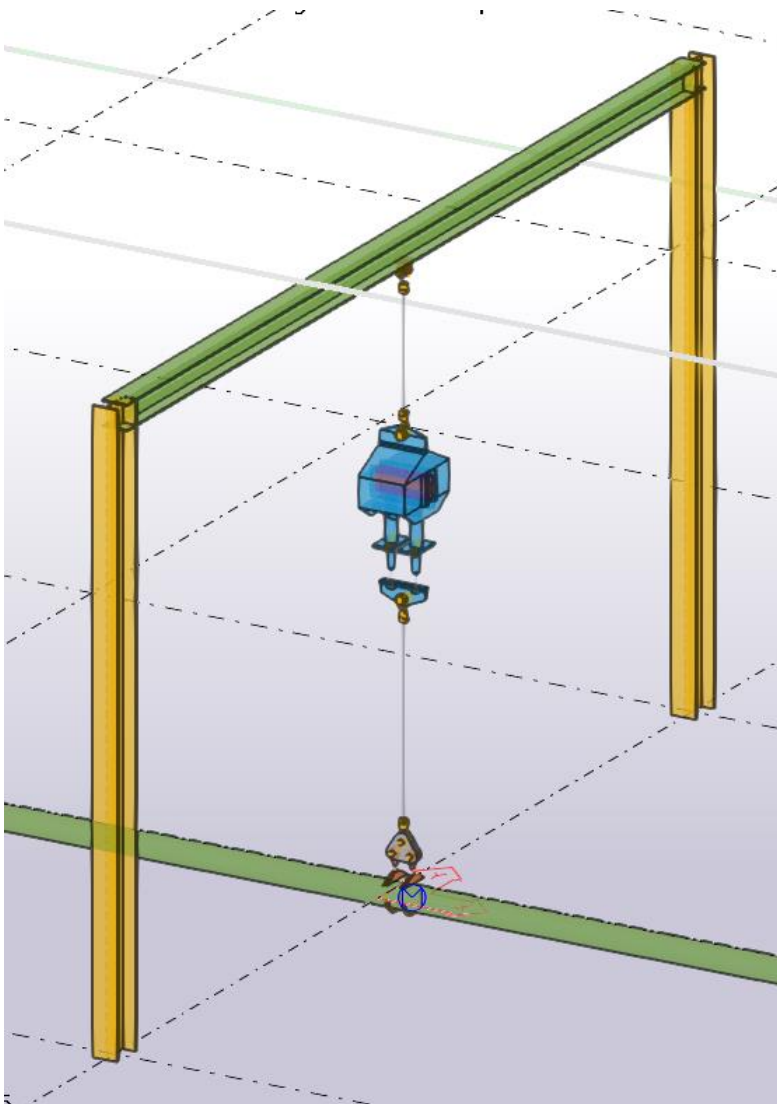
**Buttons:** Differenzen, Höhenknoten, LabelSurfaceProtectionSet, LStrCataloginUse, LStrNuclear

☐ Auswahl von Schellen gemäß max. Auslenkung (4" oder 6") ☐ Auswahl von 3/8" oder M10 nicht erlaubt **Hänger Auswahl ->** **Automatisch**

**Projekt Datenbank:** C:\Users\Public\Documents\LISEGA\LICAD V10\Projects\nm\LICADV111PRJDB.FDB (Port for private FB: **Name des Projektes:** <Name des aktuellen Projekts>

When all data is entered the button  in the lower right corner can be pressed. LICAD calculates now the required parts for the pipe support and returns the technical data of the support and the part list back to Tekla Structures.

Here the command creates the LISEGA support in the Tekla Structure model:



## LISEGA profiles

The plugin requires that some additional profiles are available (see next chapter “LIST of LISEGA profiles”).

It will create a profile definition file “profitab.inp” in the model folder or add these profiles to an existing “profitab.inp” file, except it finds a profile definition file “profitab.inp” in the XS\_FIRM system folder.

HINT: “profitab.inp” file placed in XS\_FIRM requires manual configuration!

### List of LISEGA profiles

Here is the list of used profiles

```
/* shapes used by LISEGA components
/*-----+-----+-----+-----+-----+-----+-----+
LI_BL    ! PL    ! 0 ! 0 ! 1 ! 2 !                !
LI_D     ! D     ! 0 ! 0 ! 1 ! 4 !                !
```

```
LI_SPHERE! USER ! 0 ! 0 ! 1 ! 1 !lGen.SPHERE !d !
LI_CAP ! USER ! 0 ! 0 ! 1 ! 1 !CS.CAP !d !
LI_PL_V ! USER ! 0 ! 0 ! 4 ! 6 !lGen.PyramidAsym !h*b-he*be[-ye[*ze]]
```

### [LISEGA profiles and existing profile DB in XS\\_FIRM folder](#)

HINT: This step must normally performed by an administrator, because the XS\_FIRM folder may be write protected for normal users!

Add the above list of profiles to the profile definition file “profitab.inp” in the XS\_FIRM folder.