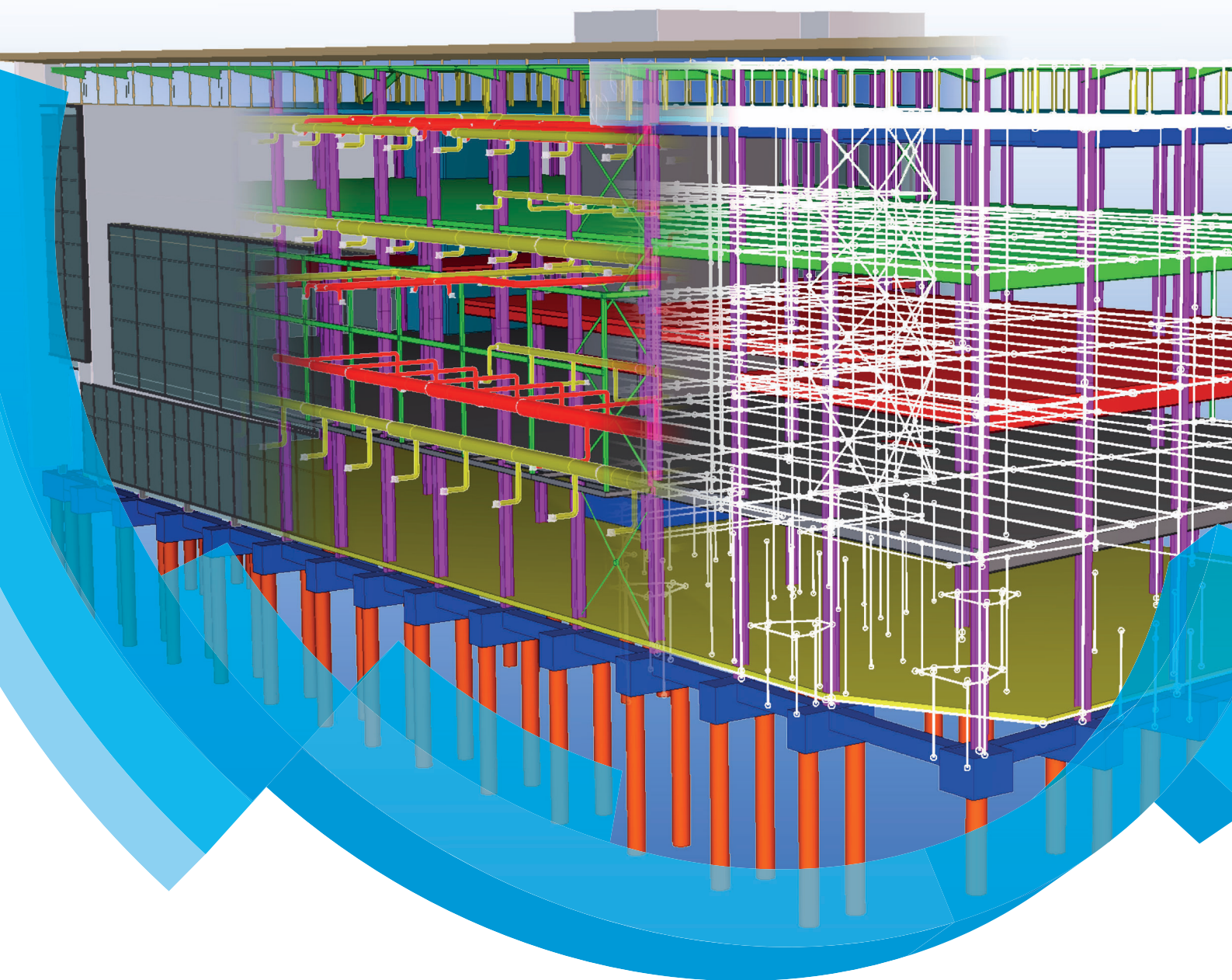
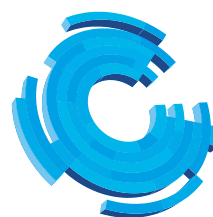




The folders



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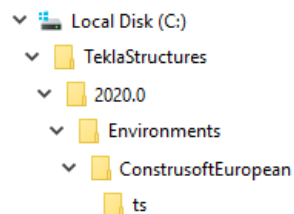
To see the third party open source software licenses, go to Tekla Structures, click **File menu --> Help --> About Tekla Structures** and then click the **3rd party licenses** option. The elements of the software described in this Manual are protected by several patents and possibly pending patent applications in the United States and/or other countries. For more information go to page <http://www.tekla.com/tekla-patents>.

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The folder ts

General

Tekla Structures includes the folder `ts` by default in which you can save custom settings so that they are available for all Tekla Structures models. This applies to all files except the file `dim_planes_table.txt`.



Custom made settings are saved in the model folder by default, you can cut them from the model folder and paste them in the folder `ts`. By cutting the files from the model folder, the files only exist in the folder `ts`.

The location of the folder `ts` is defined by the variable `XS_FIRM` in the Advanced options (via **File > Settings > Advanced options**).



The folder search order in Tekla Structures is:

1. current model folder.
2. the folder `ts`.
3. subfolders in the folder `ts`.
4. the folder `steel` in `...\TeklaStructures\<version>\Environments\ConstrusoftEuropean\system`.

This depends on the used configuration, for the folder `steel` also the folder `CIP`, `contractor`, `engineering`, `precast` or `timber` can apply (through Tekla Structures 2018i).

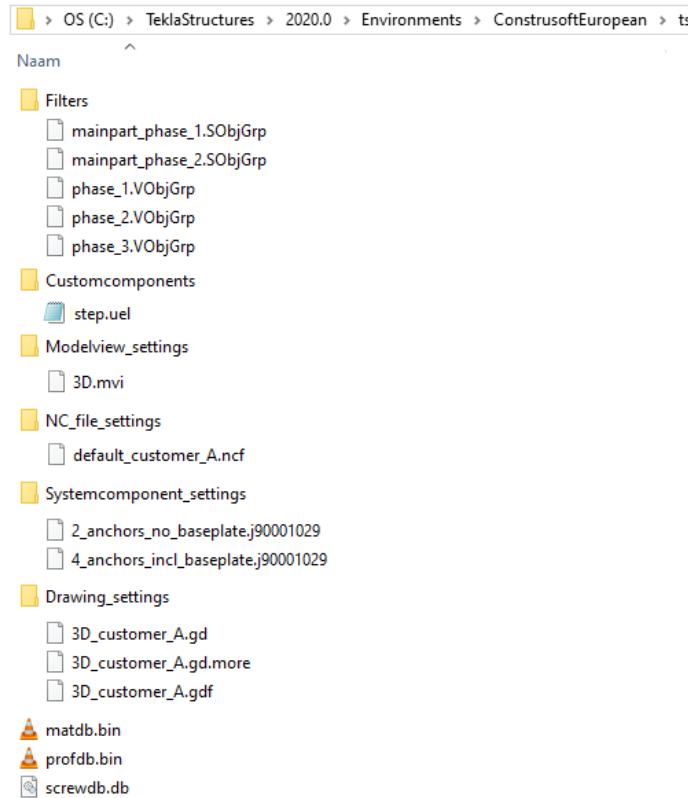
or

the folder `profil` in `...\TeklaStructures\<version>\Environments\ConstrusoftEuropean\General\`. (from Tekla Structures 2019).

When two files with the same name exist in both model folder and folder `ts`, Tekla Structures will use the file from the model folder.

Subfolders in the folder ts

Since Tekla Structures 2019i, you can also use subfolders in the folder `ts` and save your own settings in these subfolders. This allows you to organize the settings in a structured way and thus makes them easier to manage, for example:



As you can see in the image above, custom databases such as the profile database (*profdb.bin*) or the material database (*matdb.bin*) are not saved in a subfolder but always directly in the folder `ts`.

In addition, there are a number of fixed name subfolders for specific settings that you can use:

- **ProjectOrganizerData**
 - ProjectOrganizerData\DefaultCategoryTrees
 - ProjectOrganizerData\PropertyTemplates
 - ProjectOrganizerData\ExcelTemplates
- **AdditionalPSets**
- **macros**
 - macros\drawings
 - macros\modeling
- **Drawing Details**
- **extensions**
 - extensions\drawings
 - extensions\model
- **CustomInquiry**
- **PropertyRepository\Templates**
- **symbols**
- **template**
 - template\mark
 - template\setting
 - template\tooltips
- **profil**
 - profil\ShapeGeometries
 - profil\Shapes
- **Ribbons**
 - CustomTabs
 - Modeling
 - Drawing

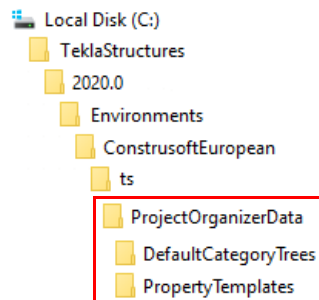
Names of "**Environment**" folders, such as *ConstrusoftEuropean*, *common*, etc. are not allowed. Next a description of specific settings follows.

Organizer

In Tekla Structures you can use the tool **Organizer** for managing model information, object property queries and object classification. You can access all model information, including IFC information, in one place, and manage your model information effectively.

When you modify property templates (file extension `.propertytemplate`) and/or categories (file extension `.category`) in the **Organizer** or when you create new ones, these are saved in the model folder. To use these settings in all models, you do the following:

1. Open Windows Explorer and create in the folder `ts` a subfolder named **ProjectOrganizerData**.
2. In this subfolder **ProjectOrganizerData** create the subfolders **DefaultCategoryTrees** and **PropertyTemplates**:

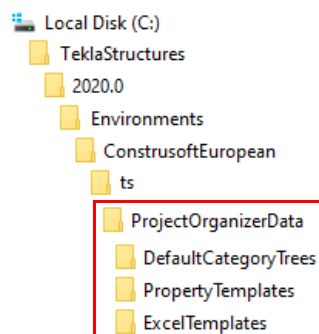


3. Copy the property templates from the model folder to the subfolder **PropertyTemplates** in the folder `ts` and the categories to the subfolder **DefaultCategoryTrees**.

Besides you can export object property values from **Object browser** to Microsoft Excel for further processing. You can use predefined default Excel templates, or you can create your own Excel templates for the export.

To use these settings in all models, you do the following:

1. Open Windows Explorer and create in the subfolder **ProjectOrganizerData** the subfolder **ExcelTemplates**.



2. Copy the created Excel templates from the model folder to the subfolder **ExcelTemplates** in the folder `ts`.

See also

Click [here](#) for detailed information about property templates and categories.

Click [here](#) for detailed information about Excel templates.

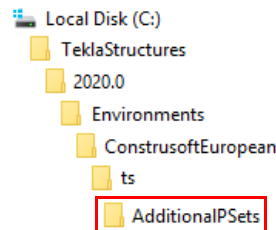
subfolder
AdditionalIPSets

IFC files

Before you export Tekla Structures model objects to IFC, you can control which attributes are included in the export using *property sets*.

You can use a number of predefined property sets but you can also define your own property sets. To use your own defined property sets in all models, you do the following:

1. Open Windows Explorer and create in the folder `ts` the subfolder **AdditionalIPSets**.



2. Copy your own property sets from the model folder to the subfolder **AdditionalIPSets** in the folder `ts`.

See also

Click [here](#) for detailed information about defining property sets.

subfolder *macros*

Macros

Tekla Structures includes several *macros* that allow you to perform a number of actions/commands automatically in Tekla Structures in both Model and Drawing Editor. You can also record and run macros yourself.

To use recorded macros in all models, you do the following:

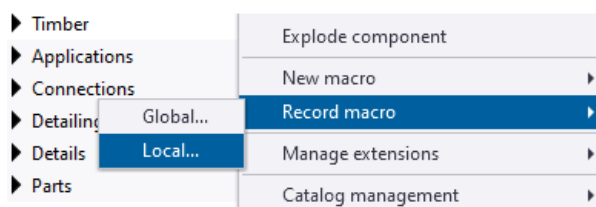
1. Open Windows Explorer and create the subfolder **macros** in the folder `ts`.
2. Define the location for the subfolder **macros** in the folder `ts` by using the advanced option `XS_MACRO_DIRECTORY` via **File > Settings > Advanced options > File Locations**.

Use a semicolon (;) as a separator and do not define more than two macro folders:

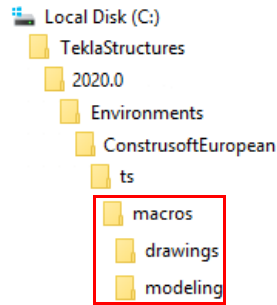
XS_DRIVER	C:\TeklaStructures\2020.0\environments\construsofteuropen\General\DrawingSettings\
XS_FIRM	C:\TeklaStructures\2020.0\environments\construsofteuropen\ts\
XS_MACRO_DIRECTORY	C:\TeklaStructures\2020.0\environments\common\macros;C:\TeklaStructures\2020.0\environments\construsofteuropen\ts
XS_MODEL_BACKUP_DIRECTORY	C:\TeklaStructuresModels\backup\
XS_MODEL_TEMPLATE_DIRECTORY	C:\TeklaStructures\2020.0\environments\construsofteuropen\Steel\ModelTemplates\

3. Restart Tekla Structures after you have modified the advanced option.
4. When you now record a macro, you save it **Local**: for this click in the database

Applications & components on Access advanced features  and next **Record macro > Local**:



When you now record a macro, the subfolder `modeling` or `drawings` is automatically saved once only in the subfolder **macros** in the folder `ts`, depending on the modus (modeling or drawing) in which you are working during the recording:



If you had already recorded macros before executing the above step-by-step plan, you can manually save these macros in the relevant subfolder `modeling` or `drawings`.

See also

Click [here](#) for detailed information about the advanced option `XS_MACRO_DIRECTORY`.

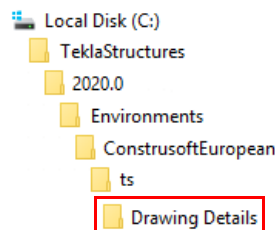
subfolder *Drawing Details*

2D Library

2D Library in the Drawing Editor allows you to quickly select objects in any drawings and save them as 2D drawing details and use these details again.

To use created details in drawings in all models, you do the following:

1. Open Windows Explorer and create subfolder **Drawing Details** in the folder `ts`.
2. Create in Tekla Structures in the Drawing Editor a new detail and save it; the detail (*.ddf file) and the image (*.png file) are stored in the folder **Drawing Details** in the model folder.
3. Copy and paste both files in the subfolder **Drawing Details** in the folder `ts`.



See also

Click [here](#) for more information about 2D Library.

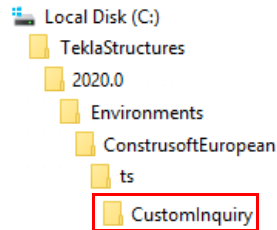
submap *CustomInquiry*

Custom Inquiry

In Tekla Structures You can use the **Custom inquiry** command  in the side pane to display information about the selected model object. You can define what information you want to display.

To use modified custom inquiry in all models, you do the following:

1. Open Windows Explorer and create subfolder **CustomInquiry** in the folder `ts`.
2. In Tekla Structures click the commando **Custom inquiry** and next click the button , the **Manage contents** dialog box appears.
3. Make all the changes you want and next click the button , the changes are saved in the subfolder **attributes** in the model folder.
4. Cut and paste the saved *.it file from the subfolder **attributes** in the model folder to the subfolder **CustomInquiry** in the folder `ts`.



See also

Click [here](#) for more information about custom inquiry.

subfolder
PropertyRepository

Object property pane

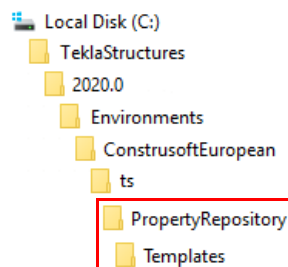
Tekla Structures shows the model object properties in the property pane. You can customize the content in the property panes. The customized property pane layouts are saved to the file *PropertyTemplates.xml* in the folder:

C:\Users\<username>\AppData\Local\Trimble\Tekla Structures\<version>\UI\PropertyTemplates\PropertyTemplates.xml.

You can distribute the customized property pane layouts to the whole organization by locating the file *PropertyTemplates.xml* in the same folder on the concerned computers.

Although, you can also save the file *PropertyTemplates.xml* in a subfolder in the folder *ts* to only maintain one file. For this, you do the following:

1. Open Windows Explorer and create subfolder **PropertyRepository** in the folder *ts*.
2. In the subfolder **PropertyRepository** create subfolder **Templates**:
3. Copy the file *PropertyTemplates.xml* from the model folder to the subfolder **Templates**:



See also

Click [here](#) and [here](#) more information about customized property pane layouts.

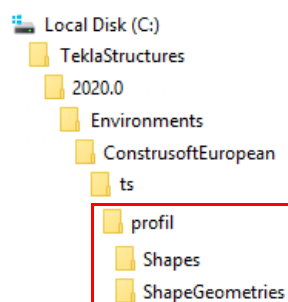
subfolder profil

Items

You can use items to model objects that would otherwise be difficult to model. You can also use items to model objects that use shapes modeled in an external software. You can also import shapes to create items in Tekla Structures.

To use an imported shape (item) in all Tekla Structures models, you do the following:

1. Open Windows Explorer and create subfolder **profil** in the folder *ts*.
2. Create subfolders **Shapes** and **ShapeGeometries** in the folder **profil**:



- When you import a shape into the Shape Catalog, Tekla Structures creates two files: one `.xml` file for shape attributes, such as name and GUID, and one `.tez` file for geometric properties, such as coordinates. The files are saved in the current model in the subfolders **Shapes** and **ShapeGeometries**.
- Next copy the `*.xml` and the `*.tez` file from the model folder to the subfolders **Shapes** and **ShapeGeometries** in the folder `ts`.

See also

Click [here](#) for more information about items.

subfolder
Ribbons

Custom ribbon tabs

In Tekla Structures you can use the Ribbon editor (via **File > Settings > Ribbon**) to add tabs to the ribbon.

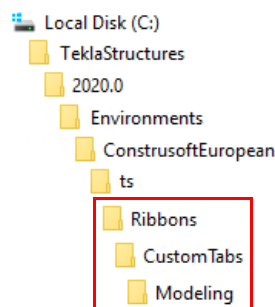
With the Ribbon editor you can customize the ribbon according to your needs. You can change the size and shape of any button, for example. You can create user-defined commands and bring your favorite components and extensions to the ribbon for an easy access.

See also

Click [here](#) for detailed information about customizing the ribbon.

In case you have added a tab to the ribbon, you can share the added tab with other Tekla Structures users. You can also share the tab between Tekla Structures 2019i and Tekla Structures 2020.

Therefore, you create subfolder **CustomTabs** and sub-subfolder **Modeling** or **Drawing** in the folder **Ribbons**:



Click [here](#) for an instruction video.

Custom
components

For custom components, the following applies:

On page 2 you see that subfolder **Custom components** is added in which a custom component is located.

The advanced option `XS_UEL_IMPORT_FOLDER` (saved in the "role" file you are working with in the folder

`C:\TeklaStructures\<version>\Environments\ConstrusoftEuropean`) refers to the folder in which custom components can be located.

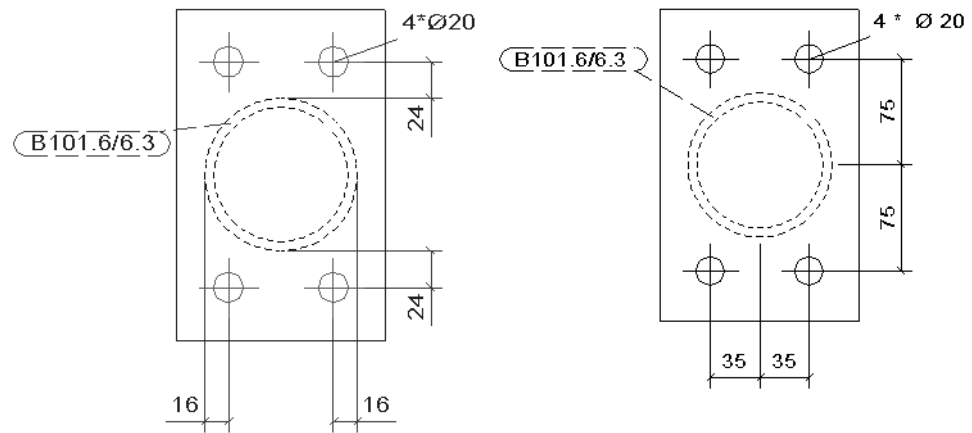
The advanced options points to the folder `..environments\ConstrusoftEuropean\<your configuration>\ComponentsSketches` by default, but you can also point the option to the subfolder:

```
*role_Steel_Detailer.ini - Kladblok
Bestand Bewerken Opmaak Beeld Help
set XS_SYSTEM=%XS_STEEL%;%XS_GENERAL%;%XS_DATADIR%\environments\common\system\
set XS_FIRM=%XS_DATADIR%\environments\construsofteuropean\ts\
set XS_UEL_IMPORT_FOLDER=C:\TeklaStructures\2020.0\Environments\ConstrusoftEuropean\ts\Customcomponents
set XS_USE_OLD_DRAWING_CREATION_SETTINGS=TRUE
set XS_MODEL_TEMPLATE_DIRECTORY=%XS_DATADIR%\environments\construsofteuropean\Steel\ModelTemplates\
```

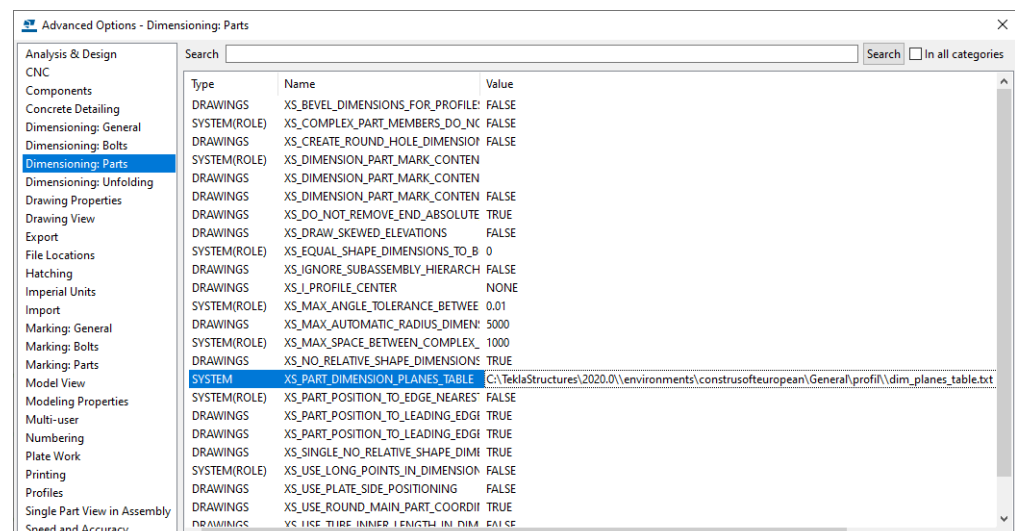
The table dim_planes_ table.txt

When you store the table `dim_planes_table.txt` in the folder `ts`, you also need to modify the new path to the file in the **Advanced options**.

You can affect the way Tekla Structures dimensions different profiles in drawings by defining dimension settings for profiles in the dimension planes table `dim_planes_table.txt`. For example, you can have Tekla Structures always dimension round bars to the middle of the profile and large I profiles to the top.



The default path to the table `dim_planes_table.txt` is defined in the advanced option `XS_PART_DIMENSION_PLANES_TABLE`.



The advanced option is set as follows by default:

```
XS_PART_DIMENSION_PLANES_TABLE=C:\TeklaStructures\<version>\
environments\ConstrusoftEuropean\General\profil\dim_planes_
_table.txt
```

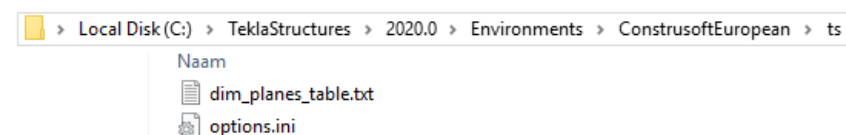
The table `dim_planes_table.txt` is stored in the folder `profil` by default.

Copy the table `dim_planes_table.txt` from the folder `profil` to the folder `ts` and modify it to your needs.

To use the modified table `dim_planes_table.txt`, copy the line

```
XS_PART_DIMENSION_PLANES_TABLE=C:\TeklaStructures\<version>\
Environments\ConstrusoftEuropean\ts\dim_planes_table.txt
```

to the file `options.ini` in the folder `ts`. Next start Tekla Structures.



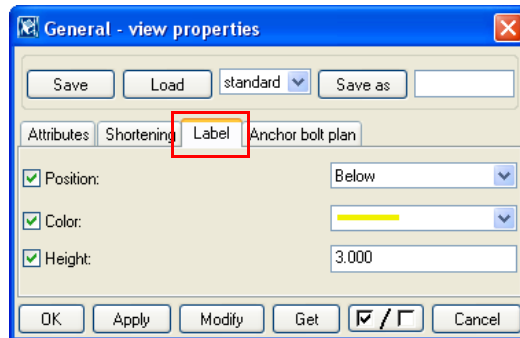
Updating files in the folder ts in new versions

All folders, except the folder `ts`, are updated by Construsoft per version. The advice is not to modify the updated folders (such as `.\\ConstrusoftEuropean\\General`, `.\\ConstrusoftEuropean\\Steel`). This means that each version includes the most recent (up to date) files in these folders.

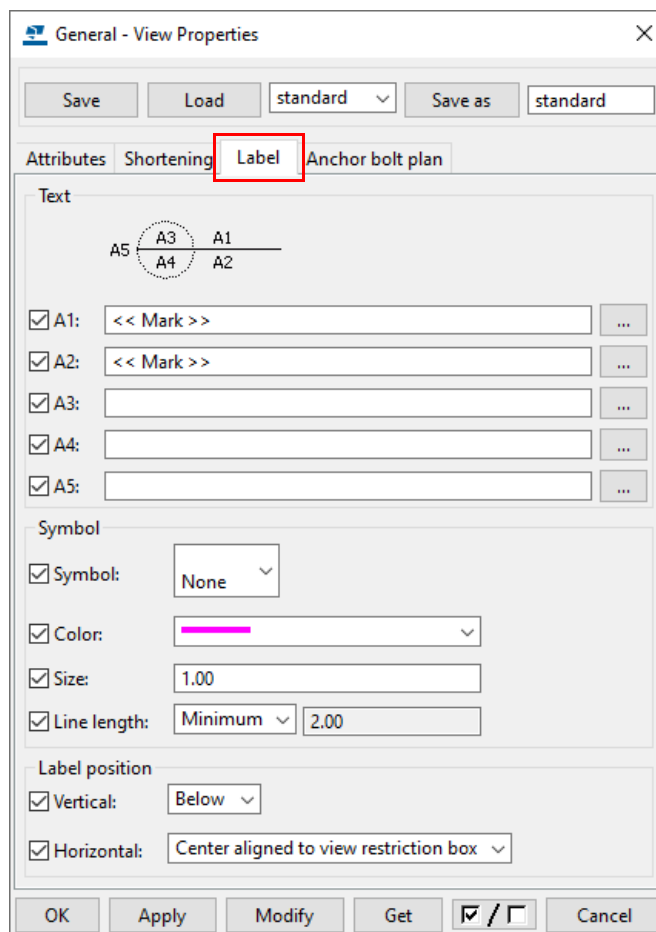
As you know, you can automatically copy custom made settings by using the Migration Wizard from the folder `ts` from the current Tekla Structures version to the folder `ts` from the new Tekla Structures version.

You must **check and update** the files in the folder `ts` **by yourself** for the new version, because settings can differ per version, e.g. when new fields or User-defined attributes are added!

Old versions



Newer Tekla Structures version



You must **Load** and **Save as** these files in the concerned dialog boxes in Tekla Structures!

Checklist

Date

In Windows Explorer you can sort the files in the folder `ts` by date and time to easily find out how old the files actually are.

Amount of files

In case the folder `ts` includes a large amount of files (possibly hundreds or even more!), you can consider start working with the (by Construsoft) supplied settings and to only save the `*.lay` (drawing layout), `*.tpl` (templates) and `*.rpt` (report) files in the folder `ts` and to see what you really might be missing.

Templates and reports

Since Tekla Structures 16.1 you cannot use templates and reports created in Template Editor version 2.2 anymore. You can now only use templates and reports created in Template Editor version 3.x. You will need to convert these by yourself!

You can use pictures (for example your company logo) in graphical templates. Tekla Structures supports `.bmp`, `.jpg`, `.jpeg`, `.tif`, `.tiff` and `.png` files.

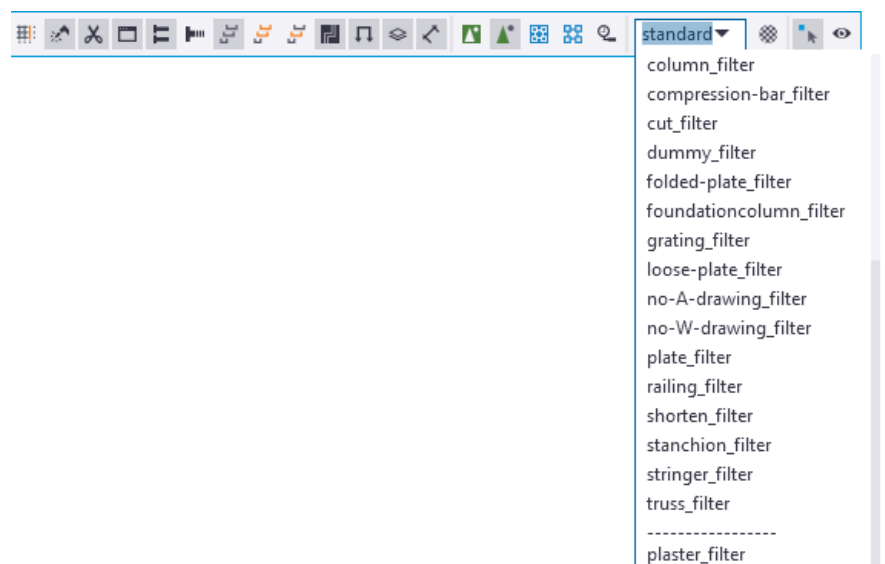
Material types and grades: Plates and profiles 4 according to NEN-EN 10025-2, tubes and RHS profiles: S275J0H according to NEN-EN 10210-1 (hot rolled) S355J2H according to NEN-EN 10219-1 (cold rolled)		Projection:
Welds S235JR, unless mentioned different, according to NEN-EN-ISO 2553:2014. Bolt grade 8.8, unless mentioned different		
		Project:
		project number
		Drawing:
		G [1]
		Size:
		A0
		Status:

It might be a good idea to check which templates and reports are supplied by Construsoft by default. You have possibly been creating some templates and/or reports in the past (in Template Editor 2.2!) which are already available for a long time in Tekla Structures.

Selection filters

The selection filter list box is divided as follows:

- On top you will find new selection filters (file extension `.SObjGrp`)
- Below you will find an old not converted filter (file extension `.msf`)



Converting old selection filters

You **must** convert old filters (*.msf files) or delete them.

Press **Ctrl + G** to open dialog box **Object Group - Selection Filter**:

Select the filter you want to convert in the list box and click button **Save as**. Tekla Structures automatically converts this old filter to a new one and saves it. The old filter is now deleted from the list box.

Copy the new setting to the folder `ts` and delete the old *.msf file.



Mind that you need to check the working of the converted filters to see if it is equal to the old ones!

Old Construsoft files

Files which have been supplied by Construsoft in previous versions and which have been copied to the folder `ts`, can be deleted.

You can check the date of the files to find out if these files were supplied by Construsoft or if the files were created or modified by yourself. Construsoft always uses a specific date and time for the supplied files!

Version	Date	Version	Date	Version	Date
8.1	3-2-2003	13.1	3-12-2007	21.0	10-3-2015
8.3	6-8-2003	14.0	25-4-2008	21.1	11-9-2015
9.1	30-12-2003	14.1	14-10-2008	2016	10-3-2016
10.0	30-3-2004	15.0	2-3-2009	2016i	9-9-2016
10.1	31-8-2004	16.0	23-3-2010	2017	1-3-2017
10.2	3-11-2004	16.1	6-1-2010	2017i	6-9-2017
11.0	26-5-2005	17.0	10-2-2011	2018	15-3-2018
11.1	26-9-2005	18.0	6-3-2012	2018i	7-9-2018
11.2	20-12-2005	18.1	10-9-2012	2019	13-3-2019
11.3	12-5-2006	19.0	12-3-2013	2019i	02-09-2019
12.0	31-8-2006	19.1	10-9-2013	2020	04-03-2020
12.1	19-2-2007	20.0	7-3-2014		
13.0	10-4-2007	20.1	10-9-2014		

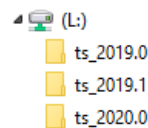
Ts folder reference to a server

By default, the folder `ts` is installed automatically on any computer on which Tekla Structures is installed. If multiple licenses are in use in one company, it is desired that all users use the same folder `ts` to make use of the same settings for profiles, drawings, templates, etc.

Therefore, it is useful to locate the folder `ts` on a server disc, so that every user uses the settings from that location.

This increases uniformity and cuts maintenance time because only one folder needs to be maintained. Also upgrading towards a new Tekla Structures version is much easier.

You need to create separate `ts` folders per Tekla Structures version because some settings are different per version, e.g. when new fields or User-defined attributes are added.



Do not use settings from, for example Tekla Structures version 2018i in Tekla Structures 2020. How to set-up a reference to the workstations?

Workstations

Modify the file `user.ini` on the workstations in the folder

Tekla Structures 2018i and earlier

```
..:\Users\<Username>\AppData\Local\Tekla Structures\<version>\UserSettings\
```

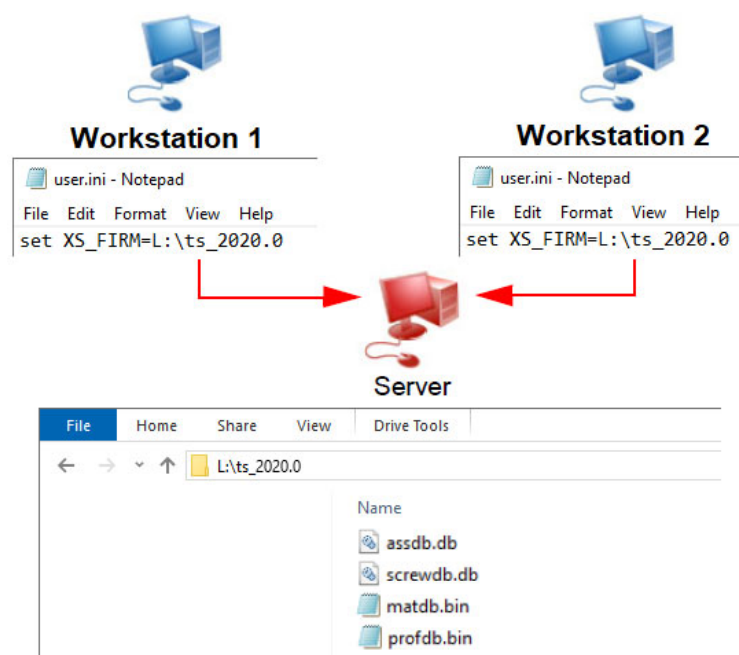
Tekla Structures 2019i and later

```
..:\Users\<Username>\AppData\Local\Trimble\Tekla Structures\2020.0\UserSettings
```

(Make sure that the line in the file `user.ini` starts with `set`).

Server

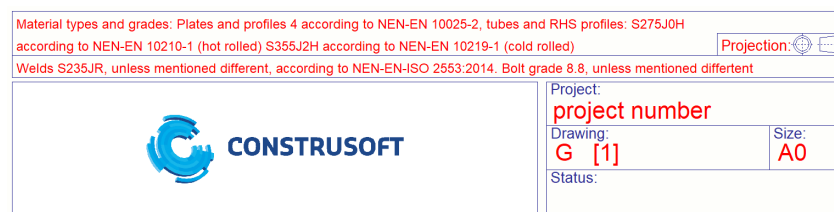
Save the desired settings in the concerned `ts` folder:



Next restart Tekla Structures.

Pictures and symbols in templates

When you locate the folder `ts` on a server, you can store pictures and symbols in this folder to be shown in the templates in drawings:



If you locate pictures and symbols in this folder `ts`, you must also add the new network location of the folder `ts` to a line in the file `env_ConstrusoftEuropean.ini` and `tpled.ini` so that the pictures and symbols appear in templates in drawings.

Step plan

1. In Windows Explorer, go to the folder `... \TeklaStructures \<version> \Environments \ConstrusoftEuropean` and open the file `env_ConstrusoftEuropean.ini`.
2. Search for the line starting with `set DXK_SYMBOLPATH`.
3. Behind the "=" sign are some paths in which the folders are defined in which Tekla Structures searches for symbols and pictures:

```
*env_ConstrusoftEuropean.ini - Notepad
File Edit Format View Help
/*          Section 1 - System Settings          */
/*XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX*/
set DXK_SYMBOLPATH=.;L:\ts_2020.0;%XSDATADIR%\environments\construsofteuropea
set XS_DRIVER=%XSDATADIR%\environments\construsofteuropean\General\DrawingSett
set XS_MODEL_TEMPLATE_DIRECTORY=%XSDATADIR%\environments\construsofteuropea\G
set XS_PROFDB=%XSDATADIR%\environments\construsofteuropean\General\profil\
/* Copy correct ts_page_10.inp and ts_page_9.inp depending on environment: */
```

4. In the location indicated above, separated by semicolons (;), add the path of the new location of the folder `ts`.
5. Save the file.
6. In Windows Explorer go to the folder `... \TeklaStructures \<version> \Environments \ConstrusoftEuropean \template \settings` for Tekla Structures versions -versions up to and including 2018i
or go to `... \TeklaStructures \<version> \Environments \ConstrusoftEuropean \General \template \settings` for Tekla Structures 2019i.
7. Open the file `tpled.ini` and go to the indicated line:

```
tpled.ini - Notepad
File Edit Format View Help
-9.00 2 1 1 152 153 1
160 161 162 161 160
2 2 2 2 2
1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1 1
@\\.\..\..\..\..\common\fonts\
@\\.\..\..\..\..\common\symbols\;.\bitmaps\;.\bitmaps\bendingshapes
@\\.\
```

8. Add a semicolon (;) at the end of the line and add the path for the new location of the folder `ts`.
9. Save the file and restart Tekla Structures.
10. The picture is now shown in drawings.

Autosave

It is recommended that the advanced option `XS_AUTOSAVE_DIRECTORY` in **File > Settings > Advanced options** category **File Locations** that refers to the folder where the autosave is stored **not** be referenced to a location on the server:

As a result, when creating an autosave, there is no network congestion because the autosave is stored locally.

Pros and cons

Settings (files from the folders `General` and `ts` among other things) are stored in the cache memory.

The great advantage is that Tekla Structures loads all settings only once and therefore does not continuously search all paths for files. Certainly, when all data is located on a server or when working in multi-user, this offers great advantages.

In addition to the advantages, there is also one disadvantages to this option: the speed.

Tekla Structures loads the settings, but this takes more time because a network is slower in relation to loading the settings from your local hard drive.