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Tekla Structures includes several advanced options that you can use to customize your version of Tekla Structures. For example, you can choose to use imperial units by setting an advanced option.

The default values given for the advanced options are the default values in the default environment. The default values may be different in your environment.

The advanced options are grouped in different categories according to their usage in the Advanced Options dialog box. To access the dialog box, click Tools --> Options --> Advanced options... .

Use the Advanced options search tool to find advanced options by name.

Click the links below to find out more:

- Alphabetical list of advanced options on page 21
- Categories in the Advanced Options dialog box on page 19

1.1 Categories in the Advanced Options dialog box

The Advanced Options dialog box groups advanced options in the following categories:

- Analysis & Design
- CNC
- Components
• Concrete Detailing
• Dimensioning: General
• Dimensioning: Bolts
• Dimensioning: Parts
• Dimensioning: Unfolding
• Drawing Properties
• Drawing View
• Export
• File Locations
• Hatching
• Imperial Units
• Import
• Marking: General
• Marking: Bolts
• Marking: Parts
• Model View
• Modeling Properties
• Multi-user
• Numbering
• Plate Work
• Printing
• Profiles
• Single Part View in Assembly Drawing
• Speed and Accuracy
• Templates and Symbols
• Welds

See also
Click on a letter in the alphabetical list of advanced options to open a list of advanced options that begin with that letter, ignoring the initial letters XS. For example, under A you will find the advanced option XS_AISC_WELD_MARK, under B, XS_BACKGROUND_COLOR, etc.

Advanced options starting with XSR are listed under R. They control how Tekla Structures displays imperial units in reports and drawing tables.

Use the Advanced options search tool to find advanced options by name.

2.1 A

XS_AD_CURVED_BEAM_SPLIT_ACCURACY_MM

Category Analysis & Design

Use to set the maximum distance between a curved member and straight segment. Enter the value in millimeters. The default value is 25.0 mm.

This advanced option is model-specific and the setting is saved in the options database.
**XS_AD_ELEMENT_ANGLE_CHECK_ANGLE_DIFF_LIMIT**

**Category** Analysis & Design

Use to set a limit angle between physical part and analysis model member, in order to test the validity of the analysis model. When the angle is greater than the limit, a message appears and a warning is added to the log. Small differences in angles are usual in the analysis model of a truss, for example. The default value is 10.0.

This advanced option is model-specific and the setting is saved in the options database.

**XS_AD_ENVIRONMENT**

**Category** Analysis & Design

This advanced option is used in analysis and design integration to set the environment, for example, to set the cross section catalog. The default value is Europe.

Possible values are dependent on the analysis application that is used. For some applications, this advanced option is not used.

This advanced option is model-specific and the setting is saved in the options database.

**XS_AD_GET_MOMENT_CONNECTION_STATUS**

**Category** Analysis & Design

Use to specify to which value (Yes or No) the Moment connection symbols option is set when the Get results command is used in the analysis model. The Moment connection symbols option is available on the End conditions tab in the user-defined attributes properties dialog box of the part, and it defines whether the moment connection symbols are shown in drawings.

Set the advanced option to one of the following values:

- **yz**: if the rotations ry and rz are fixed in the analysis model, the value Yes is used, otherwise No is used.
- **xyz**: if all rotations are fixed in the analysis model, the value Yes is used, otherwise No is used.
- **z**: if the rotation rz is fixed in the analysis model, the value Yes is used, otherwise No is used.
- The advanced option is not set: The value you have set manually in the Moment connection symbols option is used.

The default is yz.

This advanced option is model-specific and the setting is saved in the options database.
See also

**XS_AD_GET_RESULTS_DESIGN_VALUES**

**Category** This advanced option can be set in initialization files.

Set this advanced option to **TRUE** to import steel and concrete design values from Robot into Tekla Structures when you use the **Get results** or **Get results for selected** command in the Analysis & Design Models dialog box. The default value is **TRUE**. If you do not want to import the design values, set this advanced option to **FALSE**.

See also **XS_AD_GET_RESULTS_FORCES on page 23**

**XS_AD_GET_RESULTS_FORCES**

**Category** This advanced option can be set in initialization files.

Set this advanced option to **TRUE** to import forces from Robot into Tekla Structures when you use the **Get results** or **Get results for selected** command in the Analysis & Design Models dialog box. The default value is **FALSE**.

See also **XS_AD_GET_RESULTS_DESIGN_VALUES on page 23**

**XS_AD_MEMBER_NUMBER_VISUALIZATION**

**Category** Analysis & Design

Use to show or hide member numbers when displaying the analysis model in a model view. The default is **TRUE**, which shows the numbers. To hide the numbers, set to **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.

**XS_AD_MEMBER_RESULT_DISP_DIVISION_COUNT**

**Category** Analysis & Design

Use to define the analysis member points whose results are saved in the analysis_results.db5 database. This advanced option defines into how many parts each analysis member is divided.

Enter an integer value. The default is 0, which does not save any displacement results.

This advanced option is model-specific and the setting is saved in the options database.
To save only the displacements of member ends, set `XS_AD_MEMBER_RESULT_DISP_DIVISION_COUNT` to 1.

To save three intermediate displacement results, in addition to the end displacements, set `XS_AD_MEMBER_RESULT_DISP_DIVISION_COUNT` to 4.

**See also**  
`XS_AD_MEMBER_RESULT_MIN_DISTANCE` on page 24  
`XS_AD_MEMBER_RESULT_DIVISION_COUNT` on page 24

---

**XS_AD_MEMBER_RESULT_DIVISION_COUNT**

**Category**  
Analysis & Design

Use to define the analysis member points whose results are saved in the `analysis_results.db5` database. This advanced option defines into how many parts each analysis member is divided.

The default is 1, which saves only the results of member ends.

This advanced option is model-specific and the setting is saved in the options database.

**Example**  
To save the results of three intermediate points (quartiles) on each member, in addition to the end results, set `XS_AD_MEMBER_RESULT_DIVISION_COUNT` to 4.

**See also**  
`XS_AD_MEMBER_RESULT_MIN_DISTANCE` on page 24  
`XS_AD_MEMBER_RESULT_DISP_DIVISION_COUNT` on page 23

---

**XS_AD_MEMBER_RESULT_GRID_SIZE**

**Category**  
Analysis & Design

Use to define the grid spacing for the analysis results of plates, slabs, and panels. Enter the value in millimeters. The default value is 500.

This advanced option is model-specific and the setting is saved in the options database.

---

**XS_AD_MEMBER_RESULT_MIN_DISTANCE**

**Category**  
Analysis & Design

Use to define the minimum distance between the analysis result points on analysis members. Enter the value in millimeters. The default value is 500.

This advanced option is model-specific and the setting is saved in the options database.
XS_AD_MEMBER_TYPE_VISUALIZATION

Category Analysis & Design

Use color to show different analysis member types when displaying the analysis model in a model view. A setting of FALSE shows the analysis members in red. The default setting is TRUE. This identifies analysis members using the following colors:

- Red = normal member
- Gray = composite beam
- Green = truss member
- Violet = truss member, tension only
- Yellow = truss member, compression only
- Dark blue = rigid link
- Light blue = plate, slab, or panel edge

This advanced option is model-specific and the setting is saved in the options database.

XS_AD_NEAR_NODES_WARNING_LIMIT

Category Analysis & Design

Use this advanced option to trigger a warning when analysis nodes are closer to each other than the limit.

Enter the limit in millimeters. The default value is 0, which means that Tekla Structures does not show warnings.

This advanced option is model-specific and the setting is saved in the options database.

Example To have Tekla Structures show a warning for analysis nodes that are closer than 5 mm to each other, set XS_AD_NEAR_NODES_WARNING_LIMIT to 5.

See also XS_AD_SHORT_MEMBER_WARNING_LIMIT on page 29
XS_AD_SHORT_RIGIDLINK_WARNING_LIMIT on page 29

XS_AD_NODE_NUMBER_BY_Z

Category Analysis & Design

See also XS_AD_MEMBER_RESULT_DIVISION_COUNT on page 24
XS_AD_MEMBER_RESULT_DISP_DIVISION_COUNT on page 23

Alphabetical list of advanced options 25 A
If you set this advanced option to **TRUE**, the start number of a new analysis node is set according to the z coordinate of the node. For example:

- If z is less than 1000.0, the node start number is 0.
- If z is between 1000.0 and 1999.0, the node start number is 1000.
- If z is between 2000.0 and 2999.0, the node start number is 2000.

The first free number above the start number is assigned to the node.

The default is **FALSE**.

**XS_AD_NODE_NUMBER_VISUALIZATION**

**Category** Analysis & Design

Use to show or hide node numbers when displaying the analysis model in a model view. The default is **TRUE**, which shows the numbers.

This advanced option is model-specific and the setting is saved in the options database.

**XS_AD_OPTIMISATION_DISABLED**

**Category** Analysis & Design

Use to check profile catalog analysis values. To enable design optimization, use the value **FALSE**. To disable design optimization, use the value **TRUE**. The default value is **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.

**See also**  
XS_PROFILE_ANALYSIS_CHECK_ALL on page 241

**XS_AD_OPTIMISATION_NO_WEIGHT_SORT**

**Category** Analysis & Design

When optimization cross section group is extracted from the profile catalog, the group is sorted by default according to the section weight (cross section area). Set this advanced option to **TRUE** to disable this sorting, in which case the section order is the same as in the profile catalog.

If you use the value **FALSE**, the group is sorted according to the section weight. The default value is **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.
**XS_AD_OPTIMISATION_RECURSE_CATALOG**

**Category** Analysis & Design

Set this advanced option to **TRUE** to have Tekla Structures ignore profile catalog rules for optimizing steel part sizes and search the entire profile catalog. If you want to take the rules into account, set it to **FALSE**. The default value is **TRUE**.

This advanced option is model-specific and the setting is saved in the options database.

**XS_AD_PLATE_MESH_CHECK_DISTANCE_LIMIT**

**Category** Analysis & Design

Use to define the distance at which Tekla Structures considers nodes to be too close. Enter the value in millimeters. The default value is **100.0**. When nodes are too close to each other in slab or wall meshes, Tekla Structures writes information to the `analysis.log` file.

To define the distance within which Tekla Structures considers nodes to be too close, use this advanced option.

To restrict the distance check to a particular object, enter the object ID in the **Value** field for the advanced option **XS_AD_PLATE_MESH_CHECK_PART_ID**. The default value is **0**.

Tekla Structures writes three rows in the `analysis.log` file:

- The first row contains information on parts, for example: "Mesh point distances less than the specified limit for PartId: 123"

- The second row contains information on the first node, for example: "NodeID: 456, x = 100.0000, y = 200.0000, z = 10000.000"

- The third row contains information on the second node, and distance, for example: "->NodeID: 789, x = 150.0000, y = 200.0000, z = 10000.000, distance = 50.0000"

When you click a line in the log file that contains an object ID, Tekla Structures highlights the object in the model.

This advanced option is model-specific and the setting is saved in the options database.

See also **XS_AD_PLATE_MESH_CHECK_PART_ID** on page 27

**XS_AD_PLATE_MESH_CHECK_PART_ID**

**Category** Analysis & Design
Use to restrict the distance check in slab or wall mesh nodes to a particular object. The default value is 0.

This advanced option is model-specific and the setting is saved in the options database.

**See also**  
XS_AD_PLATE_MESH_CHECK_DISTANCE_LIMIT on page 27

---

**XS_AD_RESULT_DATABASE_ENABLED**

**Category**  
Analysis & Design

Use to define whether the analysis results database `analysis_results.db5` is created or not. The default setting is **TRUE**. This creates the analysis results database.

If you decide not to create the analysis results database, set this advanced option to **FALSE**. In this way the use of large models with several load combinations is faster and less memory consuming.

This advanced option is model-specific and the setting is saved in the options database.

---

**XS_AD_RIGID_DIAPHRAGM_VISUALIZATION**

**Category**  
Analysis & Design

Defines whether extra sticks are drawn in visualization for rigid diaphragms.

This advanced option is model-specific and the setting is saved in the options database.

<table>
<thead>
<tr>
<th>Advanced option is set to</th>
<th>Appearance</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TRUE</strong> (default)</td>
<td><img src="image" alt="Diagram" /></td>
</tr>
</tbody>
</table>
**Advanced option is set to** | **Appearance**
---|---
FALSE | ![Image]

**XS_AD_SHORT_MEMBER_WARNING_LIMIT**

**Category** Analysis & Design

Use this advanced option to trigger a warning when an analysis member is shorter than the limit.

Enter the length in millimeters. Default is 50. If the limit is set to 0, no checking is done.

This advanced option is model-specific and the setting is saved in the options database.

**XS_AD_SHORT_RIGIDLINK_WARNING_LIMIT**

**Category** Analysis & Design

Use this advanced option to trigger a warning when an analysis rigid link is shorter than the limit. Enter the length in millimeters. Default is 10. If the limit is set to 0, no checking is done.

This advanced option is model-specific and the setting is saved in the options database.

**XS_AD_SOLID_AXIAL_EXPAND_MM**

**Category** Analysis & Design

Used in analysis model creation when checking if parts are clashing. Parts are expanded in axial direction by the given distance to create clash also when there is a small gap between parts. The default value is 25.

This advanced option is model-specific and the setting is saved in the options database.
XS_AD_SUPPORT_VISUALIZATION

Category Analysis & Design

Use to show or hide the support conditions when showing the analysis model in a model view. The default is TRUE, which shows the support conditions.

This advanced option is model-specific and the setting is saved in the options database.

XS_AD_USE_HIGH_ACCURACY

Category Analysis & Design

Set this advanced option to FALSE to allow for more tolerance in the creation of the analysis model. In certain situations this will result in a more suitable analysis model. If you do not want to allow more tolerance in the analysis mode creation, set this advanced option to TRUE. The default value is FALSE.

This advanced option is model-specific and the setting is saved in the options database.

XS_ADAPTIVE_OBJECTS

Category Modeling Properties

Use to define which adaptivity method to use. The options are:

• ENABLED: the new adaptivity method is used
• ENABLED_OLD: the old adaptivity method is used
• DISABLED: adaptivity is disabled

The default value is ENABLED.

This advanced option is model-specific and the setting is saved in the options database.

See also

XS_ADJUST_GRID_LABELS

Category Model View

Set this advanced option to FALSE to disable the dynamic moving of grid labels when zooming in, and to keep the labels anchored to the end of the grid line. The default value is TRUE, and the grid line labels are kept visible. When working with very large grids having the grid labels always visible might slow down Tekla Structures. After you change the advanced option setting, close and re-open the view to implement the change.
XS_AISC_WELD_MARK

Category Welds

Set this advanced option to TRUE to create welding marks according to the AISC standard. To create ISO standard welding marks, set it to FALSE. The default value is FALSE, which means that ISO is used by default.

The size of the weld in model views for AISC welds is defined by below line size, whereas for ISO welds, it is the above line size property that defines the size in model views.

AISC weld symbols show the arrow-side weld properties below the reference line, and the other-side properties above it.

This advanced option also affects the spacing of intermittent welds:

- TRUE uses the Pitch value entered in the Weld Properties dialog box as the center to center spacing of welds.
- FALSE uses the Pitch value entered in the Weld Properties dialog box as the spacing between the welds.

This advanced option is model-specific and the setting is saved in the options database.

XS_ALLOW_DRAWING_TO_MANY_MULTI_DRAWINGS

Category Numbering

Set this advanced option to TRUE to allow the same drawings to be included in more than one multidrawing.

If you want the drawing to be included in only one multidrawing, set this value to FALSE (default).

This advanced option is model-specific and the setting is saved in the options database.

XS_ALLOW_INCH_MARK_IN_DIMENSIONS

Category Dimensioning: general

Set to TRUE to have Tekla Structures include the inch symbol in dimensions. The default value is TRUE. If you do not want to allow inch marks, set this advanced option to FALSE.

This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.
**XS.Allow.Inch_Mark.In.Weld_Symbols**

**Category** Imperial Units

Set this advanced option to **TRUE** to have Tekla Structures include the inch symbol in weld symbols. If you do not want to include the inch symbol, set it to **FALSE** (default).

This advanced option is model-specific and the setting is saved in the options database.


**Category** Concrete Detailing

If you set this advanced option to **TRUE**, reinforcing bars can be drawn on top of each other. In this case you have selected **Visibility of reinforcing bars in group** to **bar in the middle of group** or to **customized**, and you have two reinforcing bar groups on top of each other, for example, on the top surface of a slab and on the bottom surface of a slab. The default value is **FALSE**. This advanced option is model-specific and the setting is saved in the options database.

**XS.Allow.Reinforcing.Locked.Parts**

This advanced option can be set in initialization files.

Set to **TRUE** to create, modify, or delete reinforcement in parts that have been locked. This is useful, for example, when different parties of a project are responsible for modeling concrete parts and for modeling reinforcement, and when modification of parts needs to be prevented.

**XS.Allow.Shear.Plate.Clash.Flange**

**Category** Components

Set this advanced option to **TRUE** (default) to omit the default 0.3 mm tolerance between shear tab and secondary part web for shear tab components. To use the tolerance, set it to **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.


**Category** Drawing Properties
Set this advanced option to TRUE to always display the confirmation message "Do you want to save current drawing?".

The default value is FALSE. This means that if you close a drawing without making any changes, Tekla Structures does not by default prompt you to save the drawing.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**XS_ALWAYS_CONFIRM_SAVE_WHEN_EXIT**

**Category** Modeling Properties

Use to define whether or not Tekla Structures prompts you to save the model if you are closing it without making any changes.

If this advanced option is set to TRUE (default), Tekla Structures always asks you to save the model when closing it.

If this advanced option is set to FALSE, Tekla Structures does not ask you to save the model if there are no changes after the last save.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**XS_ANCHOR_BOLT_PLAN_ADDITIONAL_PARTS_FILTER**

**Category** Drawing Properties

Use to add additional parts that are not usually part of a column assembly to an anchor bolt plan, such as anchor rods or leveling plates. First define a general arrangement drawing filter and then give that filter name as the value for this advanced option.

This advanced option is model-specific and the setting is saved in the options database.

In the following example we will make anchor rods and leveling plates visible in an anchor bolt plan.

1. Click Tools --> Options --> Advanced Options --> Drawing Properties.
2. Enter the name of the general arrangement drawing filter for the advanced option XS_ANCHOR_BOLT_PLAN_ADDITIONAL_PARTS_FILTER. In this example, we will use the name SHOW_IN_ABPLAN (default).
3. Click Drawings & Reports > Drawing Settings > General Arrangement Drawing.
4. In the general arrangement drawing properties dialog box, click Filter....
5. Click Add row.
6. Select Part as the Category, Name as the Property, Equals as the Condition and enter *ANCHOR*LEVEL in the Value box.

7. Enter the name of the drawing filter, SHOW_IN_ABPLAN, in the Save as box and click Save as.

8. Click Cancel to exit the dialog box.

When you create an anchor bolt plan, both the anchor rods and the leveling plates are shown in the drawing. In the drawing below, the name of the anchor rod is "ANCHOR ROD" and the name of the leveling plate is "LEVELING PLATE."

See also

**XS_ANCHOR_BOLT_PLAN_BASEPLATE_FILTER**

**Category** Drawing Properties

Use a general arrangement drawing filter to limit the number of visible objects to determine the parts to be included in the anchor bolt plan. First create the base plate filter, then enter its name as the value for the advanced option. Tekla Structures will show in the anchor bolt plan the base plates defined by the drawing filter.

If this advanced option is set, base plate is a part that fulfills the following rules:

- Part belongs to the same assembly as the column, which is the main part of the assembly.
- Part passes the drawing filter specified by XS_ANCHOR_BOLT_PLAN_BASEPLATE_FILTER.

If there is more than one part in the column assembly that fulfills the rules, the lowest part is considered to be the base plate.

This advanced option is model-specific and the setting is saved in the options database.

**Example** XS_ANCHOR_BOLT_PLAN_BASEPLATE_FILTER=<the name of the drawing filter for base plates>
**XS_ANCHOR_BOLT_PLAN_BOLT_FILTER**

**Category**   Drawing Properties

Use a general arrangement drawing filter to limit the number of visible objects in a drawing and determine the parts to be included in the anchor bolt plan. First create the general arrangement drawing bolt filter, then enter its name as the value for this advanced option. Tekla Structures will show in the anchor bolt plan the bolts included in the drawing filter.

This advanced option is model-specific and the setting is saved in the options database.

**Example**   `XS_ANCHOR_BOLT_PLAN_BOLT_FILTER=<the name of the drawing filter for bolts>`

**XS_ANCHOR_BOLT_PLAN_COLUMN_FILTER**

**Category**   Drawing Properties

Use a general arrangement drawing view filter to limit the number of visible objects and determine the parts to be included in the anchor bolt plan. First create a general arrangement drawing column filter, then enter its name as the value for this advanced option. Tekla Structures will show in the anchor bolt plan the columns included in the filter.

This advanced option is model-specific and the setting is saved in the options database.

**Example**   `XS_ANCHOR_BOLT_PLAN_COLUMN_FILTER=<the name of the drawing filter for columns>`

**XS_ANCHOR_BOLT_PLAN_DRAWING_TOLERANCE**

**Category**   Drawing Properties

Use to specify the distance of an assembly from the view plane for the assembly to be included in the anchor bolt plan. Enter the distance in millimeters. The default value is 200.

This advanced option is model-specific and the setting is saved in the options database.

**XS_ANCHOR_BOLT_PLAN_USE_VIEW_COORDSYS_FOR_BOLT_DIMENSIONS**

**Category**   Drawing Properties

Use to select the direction for the dimensions in the anchor bolt plans. If set to TRUE, anchor bolt plan detail view dimensions are created using the coordinate system of the main
view. This advanced option is set to \texttt{FALSE} by default, which means that the dimensions of anchor bolt plan detail views are created according to the base plate coordinate system. This advanced option is model-specific and the setting is saved in the options database.

**XS_ANGLE_DEGREE_SIGN**


**XS_ANGLE_DIMENSION_SYMBOL_SIZE_FACTOR**


See also \texttt{XS_CHECK_TRIANGLE_TEXT_SIZE} on page 69
**XS_ANGLE_TEXT_IN_UNFOLDING_BENDING_LINE_DIMENSIONING**

**Category**  Dimensioning: Unfolding

Use to set the prefix text for unfolded angles. This affects single-part drawings that show folded parts unfolded. The default value is A=.

This advanced option is model-specific and the setting is saved in the options database.

**See also**

**APPL_ERROR_LOG**

**Category**  This advanced option can be set in initialization files.

This advanced option is system-specific and is read from teklastructures.ini. Generally, there is no need to modify system-specific settings. Do not modify them if you are not an administrator.

This advanced option tells the prefix of the application error log files.

**Example**  If you enter `set APPL_ERROR_LOG=TeklaStructures`, Tekla Structures creates at least the following log files by default in C:\TeklaStructuresModels\ folder:

- TeklaStructures_%USERNAME%.log: log data collected while the program is running
- TeklaStructures_%USERNAME%.err: errors collected while the program is running

**XS_APPLICATIONS**

**Category**  This advanced option can be set in initialization files.

This advanced option is system-specific and is read from teklastructures.ini. Generally, there is no need to modify system-specific settings. Do not modify them if you are not an administrator.

This advanced option defines the folder that contains the connection, detail, and modeling tool applications.

**Example**  `set XS_APPLICATIONS=%XS_DIR%\applications\`

**XS_ARC_WIDTH_OF_CLOUD**

**Category**  Drawing Properties
Use to control the width of cloud arcs on paper (default 10 mm). You can use the **Cloud** tool to highlight changes in drawings.

This advanced option is model-specific and the setting is saved in the options database.

<table>
<thead>
<tr>
<th>Example</th>
<th>Advanced option is set to</th>
<th>Example of appearance in drawing</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td><img src="image1.png" alt="Example 1" /></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td><img src="image2.png" alt="Example 10" /></td>
</tr>
</tbody>
</table>

**XS_ASCII_IMPORT_CREATES_CONSTRUCTION_LINES**

**Category** Import

Set this advanced option to `TRUE` to have Tekla Structures only draw construction lines between object points in an ASCII import. If you do not want to do this, set it to `FALSE` (default).

This advanced option is model-specific and the setting is saved in the options database.

**ASCII_LEGEND_PATH**

**Category** This advanced option can be set in initialization files.

This advanced option points to the location of the text fields listing file.

**XS_ASSEMBLY_DRAWING_VIEW_TITLE**

**Category** Drawing Properties

Use to define a title for an assembly drawing views in a multidrawing. The options are:

- `PART_NAME`
- `PART_MATERIAL`
- `PART_POS, ASSEMBLY_POS`
• MODEL_NUMBER
• LENGTH, PROFILE
• LENGTH
• BASE_NAME
• NAME

This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.

**XS_ASSEMBLY_FAMILY_POSITION_NUMBER_FORMAT_STRING**

**Category**  Numbering

Use to define the contents of the assembly family position number. For example, instead of DT1-1, DT1-2, you can define the numbering as DT1-A, DT1-B. To get this result, set the advanced option as follows:

```
XS_ASSEMBLY_FAMILY_POSITION_NUMBER_FORMAT_STRING=
%ASSEMBLY_PREFIX%%ASSEMBLY_FAMILY_NUMBER%-%
ASSEMBLY_FAMILY_QUALIFIER_WITH_LETTERS%
```

This advanced option is model-specific and the setting is saved in the options database.

Use the following options to define the contents of family position numbers. Use as many options as you need, and enclose each one in percent symbols (%).

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>%ASSEMBLY_PREFIX%</td>
<td>Assembly prefix, defined in the part properties dialog box.</td>
</tr>
<tr>
<td>%ASSEMBLY_POS%</td>
<td>The running assembly position number, start number defined in the part properties dialog box.</td>
</tr>
<tr>
<td>%ASSEMBLY_FAMILY_NUMBER%</td>
<td>Assembly family</td>
</tr>
<tr>
<td>Option</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>%ASSEMBLY_FAMILY_NUMBER_WITH_LETTERS%</td>
<td>Assembly family number with letters. The letters run automatically from A to Z. If more letters are needed, Tekla Structures takes a second or even a third letter into use, for example AA or AAA. You can also define valid letters with the advanced option XS_VALID_CHARS_F OR ASSEMBLY_FAMILY_QUALIFIER.</td>
</tr>
<tr>
<td>%ASSEMBLY_FAMILY_QUALIFIER%</td>
<td>Assembly family qualifier, defined by</td>
</tr>
<tr>
<td>Option</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td>%ASSEMBLY_FAMILY_QUALIFIER_WITH_LETTERS%</td>
<td>Assembly family qualifier with letters. The letters run automatically from A to Z. If more letters are needed, Tekla Structures takes a second or even a third letter into use, for example AA or AAA. You can also define valid letters with the advanced option XS_VALID_CHARS_FOR_ASM_FAMILY_QUALIFIER.</td>
</tr>
<tr>
<td>%UDA:[uda_name]%</td>
<td>User-defined attribute of the assembly or assembly main part. If the attribute is defined for the assembly, it will be used.</td>
</tr>
<tr>
<td>Option</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
</tbody>
</table>
| %TPL:[tpl_name]% | Template attribute of the assembly or assembly main part, for example %TPL:PROJECT.NUMBER%.

**Number of characters**

You can define the number of characters by adding a period and the required number to the end of each option. For example

%ASSEMBLY_FAMILY_QUALIFIER_WITH_LETTERS.3% will result in three letters for every assembly, starting from AAA.

**Example**

If you set the advanced option like this:

XS_ASSEMBLY_FAMILY_POSITION_NUMBER_FORMAT_STRING=
%ASSEMBLY_PREFIX/%ASSEMBLY_FAMILY_NUMBER.3-%ASSEMBLY_FAMILY_QUALIFIER.3%

The result will be this:

A/001-001.

**See also**

XS_VALID_CHARS_FOR_ASSEMBLY_FAMILY_POSITION_NUMBERS on page 331

XS_VALID_CHARS_FOR_ASSEMBLY_FAMILY_QUALIFIER on page 332
XS_ASSEMBLY_MULTI_NUMBER_FORMAT_STRING

Category Numbering

Use to base assembly numbers on drawing numbers. Use the following switches to define the contents of assembly marks. Use as many switches as you need, and enclose each one in percent symbols (%).

The available switches are:

<table>
<thead>
<tr>
<th>Switch</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>%ASSEMBLY_MULTI_DRAWING_NUMBER%</td>
<td>Multidrawing name.</td>
</tr>
<tr>
<td>%ASSEMBLY_MULTI_DRAWING_POS%</td>
<td>Position of the assembly drawing inside the multidrawing.</td>
</tr>
<tr>
<td>%ASSEMBLY_PREFIX%</td>
<td>Assembly prefix in the model.</td>
</tr>
<tr>
<td>%ASSEMBLY_POS%</td>
<td>Assembly position number in the model.</td>
</tr>
</tbody>
</table>

Template fields

Enter TPL: followed by the name of any relevant template field. Enclose each name in percent symbols (%). For example, %TPL:PROJECT.NUMBER%

NOTE: No template fields starting with DRAWING work for this advanced option, for example, DRAWING.TITLE1. If you use them in the value, Tekla Structures will replace the whole value string with the default value.

User-defined attributes that are defined in the objects.inp file

Enter UDA: followed by the name of any relevant user-defined attribute, exactly as it appears in the objects.inp file. For example, %UDA:MY_INFO_1%

This advanced option is model-specific and the setting is saved in the options database.

Example

To put the assembly multinumbers in the format multidrawing name + part prefix + position on multidrawing, set the advanced option as follows:

%ASSEMBLY_MULTI_DRAWING_NUMBER%%ASSEMBLY_PREFIX%
%ASSEMBLY_MULTI_DRAWING_POS%

This will create the assembly mark 10B1, where:

- 10 is the drawing number
- B is the assembly prefix
- 1 designates that it is the first assembly on the sheet.
XS_ASSEMBLY_POSITION_CODE_3D

Category Templates and symbols
Set to TRUE to include Z orientation in assembly position codes.
The default value is FALSE.
This advanced option is model-specific and the setting is saved in the options database.

XS_ASSEMBLY_POSITION_CODE_TOLERANCE

Category Templates and symbols
Tolerance distance to use when identifying grid position code for assembly. The default value is 500.0.
This advanced option is model-specific and the setting is saved in the options database.

XS_ASSEMBLY_POSITION_NEW_FORMAT

Category Templates and Symbols
Use to define how the assembly position code is displayed in reports. Set to TRUE to use a format such as B1/C2 instead of B-C/1-2. The default value is FALSE.
This advanced option is model-specific and the setting is saved in the options database.

XS_ASSEMBLY_POSITION_NUMBER_FORMAT_STRING

Category Numbering
Use to define the contents of the assembly position number.

Do not change this advanced option after you have created single-part, assembly, or cast unit drawings, if you are using cloning. It may partially separate the drawings from the part they represent, causing the drawings to be flagged as deleted and other drawings to be cloned after the next numbering.

The options are:

See also XS_PART_MULTI_NUMBER_FORMAT_STRING on page 224
XS_USE_MULTI_NUMBERING_FOR on page 318
<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>%ASSEMBLY_PREFİX%</td>
<td>Assembly prefix, defined in the part properties dialog box.</td>
</tr>
<tr>
<td>%ASSEMBLY_POS%</td>
<td>The running assembly position number, starting from the start number defined in the part properties dialog box.</td>
</tr>
<tr>
<td>%ASSEMBLY_POS_WITH_LETTERS%</td>
<td>Same as above, but with letters. Uses letters A – Z by default, but you can also define valid letters with the advanced option XS_VALID_CHARS_FOR_ASSEMBLY_POSITION_NUMBERS.</td>
</tr>
<tr>
<td>%UDA:[uda_name]%</td>
<td>User-defined attribute of the assembly or assembly main part. If the attribute is defined for the assembly, it will be used. If it is not defined, the main part attribute will be used. You can also define that only the user-defined attribute of the main part will be used, for example %UDA:MAINPART.USER_FIELD_1%.</td>
</tr>
<tr>
<td>%TPL:[tpl_name]%</td>
<td>Template attribute of the assembly or assembly main part, for example %TPL:PROJECT.NUMBER%.</td>
</tr>
</tbody>
</table>

This advanced option is model-specific and the setting is saved in the options database.

**Number of characters**  
You can define the number of characters by adding a period and the required number to the end of each option. For example %ASSEMBLY_POS_WITH_LETTERS.3% will result in three letters for every assembly, starting from AAA.

**Example**  
If you set the advanced option to %ASSEMBLY_PREFİX%/%ASSEMBLY_POS.3%, the result will be A/001.

**See also**  
[XS_VALID_CHARS_FOR_ASSEMBLY_POSITION_NUMBERS on page 332](#)

**XS_ASSOCIATIVE_CHANGE_HIGHLIGHT_SIZE**

**Category**  
Dimensioning: General

Use to define the height of the change symbol around the points. The default value is 7.

This advanced option is model-specific and the setting is saved in the options database.
See also XS_HIGHLIGHT_ASSOCIATIVE_DIMENSION_CHANGES on page 180

**XS_ASSOCIATIVE_CHANGE_HIGHLIGHT_SYMBOL**

Category Dimensioning: General

Use to define the used associativity change symbol. The default value is AssociativityAnchor@1 (a cloud).

This advanced option is model-specific and the setting is saved in the options database.

See also XS_HIGHLIGHT_ASSOCIATIVE_DIMENSION_CHANGES on page 180

**XS_ATTRIBUTE_FILE_EXCLUDE_LIST**

Category File Locations

Use this advanced option to exclude attribute files or reports from the user interface. For this advanced option control strings are given for controlling the access to attribute files or reports. If a control string is present anywhere in a filename of an attribute file or a report, the file or report becomes unavailable. Several control strings can be entered, and the values are case sensitive. Use semicolon (;) as a separator.

The default value is

TS_Report_Inquire;dgn_attribute_info;import_revision

- Enter the file name or a part of the file name that you want to exclude from the user interface as the value for the advanced option. For example, setting the advanced option to _eng;_det removes all the attribute files that include the string _eng or _det in their name from the user interface.

- Enter the name or a part of the name of the report you want to exclude from the Create report dialog box. For example, setting the advanced option to _Part hides the report ts_Report_Inquire_Part.rpt in the dialog box.

Example:

PROJ1_;PROJ2_;_TeamA;Team_Detailing

This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.

**XS_AUTOCONNECTION_TOLERANCE**

Category Components
Use to set the size of the area that Tekla Structures searches for parts to connect with AutoConnection. Enter a value in millimeters. The default value is 500.0.
This advanced option is model-specific and the setting is saved in the options database.

**XS_AUTOCONNECTION_USE_UDL**

**Category** Components
**Set this advanced option to** **TRUE** to switch on UDL calculation in **AutoConnection**. This calculates the maximum shear force allowed. The default value is **FALSE**.
This advanced option is model-specific and the setting is saved in the options database.

**XS_AUTODEFAULT_UDL_PERCENT**

**Category** Components
Use to set a default percentage for UDL calculation. The default value is **50**.
In **AutoDefaults** Tekla Structures uses the percentage in the connection properties. If no percentage is given, Tekla Structures uses this value.
In **AutoConnection** only the default percentage is used. You switch UDL calculation on with the advanced option **XS_AUTOCONNECTION_USE_UDL**.
This advanced option is model-specific and the setting is saved in the options database.

See also  **XS_AUTOCONNECTION_USE_UDL** on page 47

**XS_AUTOMATIC_NEW_MODEL_NAME**

**Category** Modeling Properties
Set this advanced option to **TRUE** (default) to have Tekla Structures suggest a name for a new model automatically in the **New** dialog box. The suggested name is **New model XX**, where XX is a running number.
If you set this advanced option to **FALSE**, the name is not suggested.
This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.
XS_AUTOMATIC_USER_FEEDBACK_SAVING_INTERVAL

Category Modeling Properties

Enter an integer to define the saving interval of the automatic user feedback information. The value of the advanced option corresponds to the number of rows in the log file. The default value is 1000.

The log file is called UserFeedbackLog.txt and it is located in the TeklaStructuresModels folder.

XS_AUTOMATIC_USER_FEEDBACK_SENDING_INTERVAL

Category Modeling Properties

Enter an integer to define the sending interval of the automatic user feedback information. The value of the advanced option corresponds to the number of rows in the log file. The default value is 100000.

The log file is called UserFeedbackLog.txt and it is located in the TeklaStructuresModels folder.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

XS_AUTOSAVE_DIRECTORY

Category File Locations

Enter the path to the folder that contains the files that Tekla Structures saves automatically. The default value is %XS_RUNPATH%\autosave\.

If you do not define a path, Tekla Structures places autosave files in the current model folder. This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

2.2 B

XS_BACKGROUND_COLOR1

Category Model view
To have a gradient background color in model views, use the advanced options XS_BACKGROUND_COLOR1, XS_BACKGROUND_COLOR2, XS_BACKGROUND_COLOR3 and XS_BACKGROUND_COLOR4. With these advanced options you can control the color of corners separately in a model view.

This advanced option controls the upper-left corner of the model view. Define the color using RGB (Red Green Blue) values. The scale is from 0 to 1, and separate the numbers with spaces. If you want to use the traditional single-colored background, set the same value for all four background color advanced options. The default value is 0.98 0.98 0.99. Reopen the view for the change to take effect.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

Example
- Use 0.0 0.0 0.0 for black background.
- Use 1.0 1.0 1.0 for white background.

See also

XS_BACKGROUND_COLOR2

Category Model view
See XS_BACKGROUND_COLOR1 on page 48.
This advanced option controls the upper-right corner of the model view.

See also

**XS_BACKGROUND_COLOR3**

**Category** Model view
See XS_BACKGROUND_COLOR1 on page 48.
This advanced option controls the bottom-left corner of the model view.

See also

**XS_BACKGROUND_COLOR4**

**Category** Model view
See XS_BACKGROUND_COLOR1 on page 48.
This advanced option controls the bottom-right corner of the model view.

See also

**XS_BASE_LINE_WIDTH**

**Category** Plotting
Use this advanced option to specify the base line width for printed drawings. Enter the value in millimeters as decimal value. The default value is 0.1. The final line thicknesses in a printed drawing is the base line width multiplied by the pen thickness from the Color dialog box. For example, 25 will give a thickness of 2.5 mm.

| ![Light Bulb Icon] | To control the accuracy of line thickness, use a small value for XS_BASE_LINE_WIDTH and a large number for the pen. |

This advanced option also affects lines on the screen, if you set XS_BASE_LINE_WIDTH_AFFECTS_SCREEN to TRUE.

This advanced option is model-specific and the setting is saved in the options database.

See also **XS_BASE_LINE_WIDTH_AFFECTS_SCREEN** on page 50
XS_BASE_LINE_WIDTH_AFFECTS_SCREEN

Category: Plotting

Set this advanced option to TRUE if you want XS_BASE_LINE_WIDTH to affect line widths drawn on the screen.

Enter FALSE if you do not want XS_BASE_LINE_WIDTH to affect line widths on the screen.

The default value is TRUE.

This advanced option is model-specific and the setting is saved in the options database.

See also: XS_BASE_LINE_WIDTH on page 50

XS_BASICVIEW_HEIGHT

Category: Model View

Use to define the height of basic view windows. Enter the height in pixels. The default value is 375.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

Example: XS_BASICVIEW_HEIGHT=570

See also: XS_BASICVIEW_POSITION_X on page 51

XS_BASICVIEW_POSITION_X

Category: Model View

Use to control the horizontal position of basic view windows on the screen. Enter the value in pixels. The default value is 100.

If the advanced option XS_MDIBASICVIEWPARENT is set, the origin for the position is the top left corner of the client area. Otherwise, the origin is the top left corner of the whole Tekla Structures window. Moving a toolbar also affects the size of the client area, because menus and toolbars are not part of it.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

See also: XS_MDIBASICVIEWPARENT on page 208
**XS_BASICVIEW_POSITION_Y**

**Category**  
Model View

Use to control the vertical position of basic view windows on the screen. Enter the value in pixels. The default value is 20.

This advanced option is user-specific and the setting is saved in `options.bin` under user folder. Restart Tekla Structures to activate the new value.

**See also**  
`XS_BASICVIEW_POSITION_X` on page 51

**XS_BASICVIEW_WIDTH**

**Category**  
Model view

Use to define the width of basic view windows. Enter the width in pixels, for example, 570. The default value is 375.

This advanced option is user-specific and the setting is saved in `options.bin` under user folder. Restart Tekla Structures to activate the new value.

**See also**  
`XS_BASICVIEW_POSITION_X` on page 51.

**XS_BEVEL_DIMENSIONS_FOR_PROFILES_ONLY**

**Category**  
Dimensioning: Parts

Use to define whether to show bevel dimensions only for profiles. If you set the advanced option to **TRUE**, bevel dimensions are shown only for profiles. If you set the advanced option to **FALSE** (default), bevel dimensions are shown always.

This advanced option is model-specific and the setting is saved in the options database.

**XSBIN**

**Category**  
This advanced option can be set in initialization files.

This advanced option is system-specific and is read from `teklastructures.ini`. Generally, there is no need to modify system-specific settings. Do not modify them if you are not an administrator.

This advanced option defines the location of the Tekla Structures `bin` folder.

**Example**  
`set XSBIN=%XS_DIR%\nt\bin`
XS_BLACK_DRAWING_BACKGROUND

Category Drawing View

Set to TRUE to have a black background and colored lines in drawings. If you want to have white background and black lines, enter FALSE (default).

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value. It only affects the Color mode, not Black and White or Gray Scale mode.

See also XS_USE_COLOR_DRAWINGS on page 311

XS_BOLT_LENGTH_EPSILON

Category Modeling Properties

Use to round bolt length.

Tekla Structures calculates bolt length using material thickness. To avoid having several bolt lengths where material thickness only differs slightly, set this advanced option to a positive or negative value. This value is multiplied by two and the result is subtracted from the material thickness in bolt length calculation. Enter the value in millimeters (all environments). Typical values are 0.001–0.5. The default value is 0.001.

This advanced option is model-specific and the setting is saved in the options database.

See also

XS_BOLT_MARK_DIAMETER_PREFIX

Category Marking: Bolts

Use this advanced option to specify a prefix for bolt mark diameter. The possible values are NONE or any string.

This advanced option is model-specific and the setting is saved in the options database.

Example For a bolt group consisting of three 20 mm diameter bolts:

- If you do not give any value, result is 3*M20
- If you set XS_BOLT_MARK_DIAMETER_PREFIX to NONE, the result is 3*20
• If you set XS_BOLT_MARK_DIAMETER_PREFIX to D, the result is 3*D20

**XS_BOLT_MARK_IS_ALWAYS_VISIBLE**

**Category**  
Marking: Bolts

Set this advanced option to **TRUE** to show the bolt marks of bolts hidden from views by other objects. The bolt marks are displayed with solid leader lines and frames. If you set it to **FALSE** (default), the bolt marks of hidden bolts are displayed with dashed leader lines and frames. This advanced option affects all drawing types.

This advanced option is model-specific and the setting is saved in the options database.

**XS_BOLT_MARK_IS_ALWAYS_VISIBLE_IN_GA**

**Category**  
Marking: Bolts

Set this advanced option to **TRUE** to show the bolt marks of bolts hidden from views by other objects. The bolt marks are displayed with solid leader lines and frames. If you set it to **FALSE** (default), the bolt marks of hidden bolts are displayed with dashed leader lines and frames. This advanced only affects general arrangement drawings.

If you have set the advanced option **XS_BOLT_MARK_IS_ALWAYS_VISIBLE** to **TRUE**, the bolt marks are always displayed with solid lines even if you set **XS_BOLT_MARK_IS_ALWAYS_VISIBLE_IN_GA** to **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.

**XS_BOLT_MARK_STRING_FOR_SIZE**

**Category**  
Marking: bolts

Use to define the contents of the **Size** element in bolt marks. For example, to have the bolt number and the hole diameter in the mark, enter `%BOLT_NUMBER%*D%HOLE.DIAMETER%`

The advanced options **XS_SHOP_BOLT_MARK_STRING_FOR_SIZE** and **XS_SITE_BOLT_MARK_STRING_FOR_SIZE** override this setting.
You can use any combination of text and the following options as the value for this advanced option. Enclose each option in % characters. To use special characters enter a backslash (\) followed by an ASCII number. You can use the options in any order, and make calculations.

- BOLT_NUMBER
- DIAMETER
- LENGTH
- HOLE_DIAMETER
- LONG_HOLE_X
- LONG_HOLE_Y
- LONGHOLE_MIN (the shorter of the slotted hole dimensions)
- LONGHOLE_MAX (the longer of the slotted hole dimensions)
- BOLT_STANDARD
- BOLT_MATERIAL
- BOLT_ASSEMBLY_TYPE
- BOLT_COUNTERSUNK
- BOLT_SHORT_NAME
- BOLT_FULL_NAME

This advanced option is model-specific and the setting is saved in the options database.

See also

| XS_SITE_BOLT_MARK_STRING_FOR_SIZE on page 281 |
| XS_SHOP_BOLT_MARK_STRING_FOR_SIZE on page 266 |

**XS_BOLT_MARK_STRING_FOR_SIZE_IN_GA**

**Category** Marking: Bolts

Use to define the contents of the size element in bolt marks in general arrangement drawings. If you have not set the advanced options

XS_SHOP_BOLT_MARK_STRING_FOR_SIZE_IN_GA or

XS_SITE_BOLT_MARK_STRING_FOR_SIZE_IN_GA, then this advanced option is used.

You can use any combination of text and the following options as the value for this advanced option. Enclose each option in % characters. To use special characters enter a backslash (\) followed by an ASCII number. You can use the options in any order, and make calculations.

- BOLT_NUMBER
- DIAMETER
- LENGTH
• HOLE.DIAMETER
• LONG_HOLE_X
• LONG_HOLE_Y
• LONGHOLE_MIN (the shorter of the slotted hole dimensions)
• LONGHOLE_MAX (the longer of the slotted hole dimensions)
• BOLT_STANDARD
• BOLT_MATERIAL
• BOLT_ASSEMBLY_TYPE
• BOLT_COUNTERSUNK
• BOLT_SHORT_NAME
• BOLT_FULL_NAME

This advanced option is model-specific and the setting is saved in the options database.

See also  XS_SHOP_BOLT_MARK_STRING_FOR_SIZE_IN_GA on page 267
          XS_SITE_BOLT_MARK_STRING_FOR_SIZE_IN_GA on page 282

**XS_BOLT_POSITION_TO_MIN_AND_MAX_POINT**

**Category**  Dimensioning: Bolts

Set this advanced option to **TRUE** to create minimum and maximum position dimensions for bolts. If you do not want to create minimum and maximum position dimensions for bolts, set it to **FALSE** (default).

This advanced option is model-specific and the setting is saved in the options database.

The examples below show a maximum bolt dimension of 40:

<table>
<thead>
<tr>
<th>Setting</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before setting the advanced option.</td>
<td><img src="image" alt="" /></td>
</tr>
<tr>
<td>Setting</td>
<td>Example</td>
</tr>
<tr>
<td>------------------------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>After setting the advanced option to TRUE.</td>
<td>![Diagram]</td>
</tr>
</tbody>
</table>

See also

**XS_BOLT_REPRESENTATION_SYMBOL_AXIS_POSITION_AS_EXACT_SOLID**

**Category** Drawing Properties

If you set the advanced option `XS_BOLT_REPRESENTATION_SYMBOL_AXIS_POSITION_AS_EXACT_SOLID` to TRUE, all bolt axis representations set to Symbol are presented in the same position as with Exact solid.

The default value is TRUE.

This advanced option is model-specific and the setting is saved in the options database.

Symbol representation when the advanced option is set to FALSE:

![Symbol representation when the advanced option is set to FALSE]

Symbol representation when the advanced option is set to TRUE:
XS_BOLT_REPRESENTATION_USE_POSITIVE_CUT_LENGTH

Category Drawing Properties

Set this advanced option to TRUE to create bolt holes in the drawing instead of sticks when the cut length is negative. FALSE is the default value.

This advanced option is model-specific and the setting is saved in the options database.

XS_BOLTS_PERPENDICULAR_TO_PART_PLANE_IN_NC

Category CNC

Set this advanced option to TRUE (default) to dimension bolts perpendicular to part plane in NC files. If you do not want to dimension the bolts, set it to FALSE.

This advanced option is model-specific and the setting is saved in the options database.
**XS_CALCULATE_POLYBEAM_LENGTH_ALONG_REFERENCE_LINE**

Category Dimensioning: Unfolding

Use this advanced option to calculate polybeam length along the reference line instead of the centerline. By default, Tekla Structures measures polybeam length along the centerline of the beam, regardless of the Position in plane values of the beam. This advanced option only affects polybeams with straight sections.

Set this advanced option to TRUE to calculate polybeam length along the reference line. Set it to FALSE (default) to calculate along the centerline.

This advanced option is model-specific and the setting is saved in the options database.

The centerline option is always a safe alternative, because other modifications do not impact on it. For example, if you calculate length using the reference line and you have used offsets to move the beam, the result may not be the true length of the beam.

When XS_USE_OLD_POLYBEAM_LENGTH_CALCULATION is set to TRUE, this advanced option is not used, even though results might be the same in most cases. To obtain reliable results, especially for Net Length, we recommend that you do not set XS_USE_OLD_POLYBEAM_LENGTH_CALCULATION to TRUE.

See also XS_USE_OLD_POLYBEAM_LENGTH_CALCULATION on page 322

**XS_CAST_UNIT_FAMILY_POSITION_NUMBER_FORMAT_STRING**

Category Numbering

Use to define the contents of the cast unit family position number. For example, instead of DT1-1, DT1-2, you can define the numbering as DT1-A, DT1-B.

To get this result, set the advanced option as follows:

```
%CAST_UNIT_PREFIX%%CAST_UNIT_FAMILY_NUMBER%-
%CAST_UNIT_FAMILY_QUALIFIER_WITH_LETTERS%
```

Use the following options to define the contents of family position numbers. Use as many options as you need, and enclose each one in percent symbols (%).

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>%CAST_UNIT_PREFIX%</td>
<td>Cast unit prefix, defined in the part properties dialog box.</td>
</tr>
<tr>
<td>%CAST_UNIT_POS%</td>
<td>The running cast unit position number, starting from the start</td>
</tr>
</tbody>
</table>

Alphabetical list of advanced options 59 C
<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>%CAST_UNIT_FAMILY_NUMBER%</td>
<td>Cast unit family number, defined by the start number (in part properties dialog box) and the final position in that numbering series.</td>
</tr>
<tr>
<td>%CAST_UNIT_FAMILY_NUMBER_WITH_LETTERS%</td>
<td>Cast unit family number with letters. The letters run automatically from A to Z. If more letters are needed, Tekla Structures takes a second or even a third letter into use, for example AA or AAA. You can also define valid letters with the advanced option XS_VALID_CHARS_FOR.Assembly_FAMILY_POSITION_NUMBERS.</td>
</tr>
<tr>
<td>%CAST_UNIT_FAMILY_QUALIFIER%</td>
<td>Cast unit family qualifier, defined by the family numbering criteria given in the Numbering Setup dialog box.</td>
</tr>
<tr>
<td>%CAST_UNIT_FAMILY_QUALIFIER_WITH_LETTERS%</td>
<td>Cast unit family qualifier with letters. The letters run automatically from A to Z. If more letters are needed, Tekla Structures takes a second or even a third letter into use, for example AA or AAA. You can also define valid letters with the advanced option XS_VALID_CHARS_FOR.Assembly_FAMILY_QUALIFIER.</td>
</tr>
<tr>
<td>%UDA:[uda_name]%</td>
<td>User-defined attribute of the cast unit or cast unit main part. If the attribute is defined for the cast unit, it will be used. If it is not defined, the main part attribute will be used. You can also define that only the user-defined attribute of the main part will be used, for example %UDA:MAINPART.USER_FIELD_1%.</td>
</tr>
<tr>
<td>Option</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>%TPL: [tpl_name] %</td>
<td>Template attribute of the cast unit or cast unit main part, for example %TPL:PROJECT.NUMBER%.</td>
</tr>
</tbody>
</table>

This advanced option is model-specific and the setting is saved in the options database.

### Number of characters

You can define the number of characters by adding a period and the required number to the end of each option. For example

%CAST_UNIT_FAMILY_QUALIFIER_WITH_LETTERS.3% will result in three letters for every cast unit, starting from AAA.

#### Example

If you set the advanced option to

%CAST_UNIT_PREFIX%/ %CAST_UNIT_FAMILY_NUMBER.3%-%CAST_UNIT_FAMILY_QUALIFIER.3%

The result will be

A/001-001.

#### See also

- XS_VALID_CHARS_FOR_ASSEMBLY_FAMILY_QUALIFIER on page 332
- XS_VALID_CHARS_FOR_ASSEMBLY_FAMILY_POSITION_NUMBERS on page 331

---

**XS_CAST_UNIT_MULTI_NUMBER_FORMAT_STRING**

### Category

**Numbering**

Use to base cast unit numbers on drawing numbers. Use the following switches to define the contents of cast unit marks. Use as many switches as you need, and enclose each one in percent symbols (%).

The available switches are:

<table>
<thead>
<tr>
<th>Switch</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>%CAST_UNIT_MULTI_DRAWING_NUMBER%</td>
<td>Multidrawing name.</td>
</tr>
<tr>
<td>%CAST_UNIT_MULTI_DRAWING_POS%</td>
<td>Position of the cast unit drawing inside the multidrawing.</td>
</tr>
<tr>
<td>%CAST_UNIT_PREFIX%</td>
<td>Cast unit prefix in the model.</td>
</tr>
<tr>
<td>%CAST_UNIT_POS%</td>
<td>Cast unit position number in the model.</td>
</tr>
<tr>
<td>Template fields</td>
<td>Enter TPL: followed by the name of any relevant template field. Enclose each name in</td>
</tr>
</tbody>
</table>
### Switch Description

<table>
<thead>
<tr>
<th>Switch</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>percent symbols (%)</td>
<td>For example, %TPL:PROJECT.NUMBER%</td>
</tr>
</tbody>
</table>

**NOTE:** No template fields starting with DRAWING work for this advanced option, for example, DRAWING.TITLE1. If you use them in the value, Tekla Structures will replace the whole value string with the default value.

**User-defined attributes that are defined in the objects.inp file**

Enter UDA: followed by the name of any relevant user-defined attribute, exactly as it appears in the objects.inp file. For example, %UDA:MY_INFO_1%

This advanced option is model-specific and the setting is saved in the options database.

**Example**

To put the cast unit multinumbers in the format multidrawing name + part prefix + position on multidrawing, set the advanced option as follows:

%CAST_UNIT_MULTI_DRAWING_NUMBER%%CAST_UNIT_PREFIX%%CAST_UNIT_MULTI_DRAWING_POS%

This will create the cast unit mark 10B1, where:

- 10 is the drawing number
- B is the cast unit prefix
- 1 designates that it is the first cast unit on the sheet.

**See also**

- XS_PART_MULTI_NUMBER_FORMAT_STRING on page 224
- XS_USE_MULTI_NUMBERING_FOR on page 318

### XS_CAST_UNIT_POSITION_NUMBER_FORMAT_STRING

**Category** Numbering

Use to define the contents of the cast unit position number.

---

Do not change this advanced option after you have created single-part, assembly, or cast unit drawings, if you are using cloning. It may partially separate the drawings from the part they represent, causing the drawings to be flagged as deleted and other drawings to be cloned after the next numbering.

The options are:
<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>%CAST_UNIT_PREFIX%</td>
<td>Cast unit prefix, defined in the part properties dialog box.</td>
</tr>
<tr>
<td>%CAST_UNIT_POS%</td>
<td>The running cast unit position number, starting from the start number defined in the part properties dialog box.</td>
</tr>
<tr>
<td>%CAST_UNIT_POS_WITH_LETTERS%</td>
<td>Same as above, but with letters. Uses letters A – Z by default, but you can also define valid letters with the advanced option XS_VALID_CHARS_FOR.Assembly_POSITION_NUMBERS</td>
</tr>
<tr>
<td>%UDA:[uda_name]%</td>
<td>User-defined attribute of the cast unit or cast unit main part. If the attribute is defined for the cast unit, it will be used. If it is not defined, the main part attribute will be used. You can also define that only the user-defined attribute of the main part will be used, for example %UDA:MAINPART.USER_FIELD_1%.</td>
</tr>
<tr>
<td>%TPL:[tpl_name]%</td>
<td>Template attribute of the cast unit or cast unit main part, for example %TPL:PROJECT.NUMBER%.</td>
</tr>
</tbody>
</table>

This advanced option is model-specific and the setting is saved in the options database.

**Number of characters**
You can define the number of characters by adding a period and the required number to the end of each option. For example %CAST_UNIT_POS_WITH_LETTERS.3% will result in three letters for every cast unit, starting from AAA.

**Example**
If you set the advanced option to

%CAST_UNIT_PREFIX%/%CAST_UNIT_POS.3%

The result will be

A/001.

**See also**

**XS_CENTER_LINE_TYPE**

**Category** Drawing Properties
Use this advanced option to change the line type of the part center lines in drawings. Enter an integer value from 1 to 7. To see the center line type change, close the drawing and open it again.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Solid line</td>
</tr>
<tr>
<td>2 – 7</td>
<td>Dotted lines.</td>
</tr>
<tr>
<td></td>
<td>The default value is 4 (dash-and-dot line).</td>
</tr>
</tbody>
</table>

If you enter a value that is lower than 1 or higher than 7, Tekla Structures uses the default value 4.

To see what the line types look like, see the Hidden lines > Type options on the Appearance tab of the Part Properties dialog box.

This advanced option is model-specific and the setting is saved in the options database.

**XS_CENTER_TO_CENTER_DISTANCE_IN_ONE_PART_STRING**

**Category** Marking: Bolts

Sets the format of the element Center-to-center distance in bolt marks, when the bolts are in the same part, for example, in a column or beam flange. Use to define gage information in the bolt mark in the following way:

- Use the switch %VALUE% for the numeric value of a gage.
- You can add text and the option in any order, for example, %VALUE% GAGE or GAGE %VALUE%.
- If %VALUE% is missing, Tekla Structures adds the center-to-center distance to the end of the string.
- If this advanced option is not set, only %VALUE% is used.
- If Tekla Structures cannot calculate the gage, nothing is added in the mark.
- The default value value is GAGE = %VALUE% .

This advanced option is model-specific and the setting is saved in the options database.

**Example** There is a symmetrical bolt group in a beam flange. The value for gage is 10.

<table>
<thead>
<tr>
<th>In the Advanced Options dialog box</th>
<th>In bolt mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>GAGE = %VALUE%</td>
<td>GAGE = 10</td>
</tr>
</tbody>
</table>
**XS_CENTER_TO_CENTER_DISTANCE_IN_TWO_PARTS_STRING**

**Category**  
Marking: Bolts

Sets the format of the element **Center-to-center distance** in bolt marks where there are two parts.

The default value is C/C = %VALUE%.

This advanced option is model-specific and the setting is saved in the options database.

**Example**  
There is a symmetrical bolt group in two clip angles. The center-to-center distance is 10.

<table>
<thead>
<tr>
<th>In the Advanced Options dialog box</th>
<th>In bolt mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>c/c = %VALUE%</td>
<td>c/c = 10</td>
</tr>
</tbody>
</table>

**See also**  
**XS_CENTER_TO_CENTER_DISTANCE_IN_ONE_PART_STRING** on page 64

**XS_CHAMFER_ACCURACY_FACTOR**

**Category**  
Speed and accuracy

Use this advanced option to define the number of points used for chamfers. Use lower values to increase the number of points used to construct the chamfer, thus making the curved chamfer smoother. Use larger values to decrease the number of points used to construct the chamfer, thus making the curved chamfer less smoother.

The default value is 4.0.

Each object can only support up to 99 points, so if your contour plates are too complex or too round, the maximum number of points may be exceeded and the part geometry may break.

---

Even though the **XS_CHAMFER_ACCURACY_FACTOR** setting changes the appearance of the curved chamfers in the model, it does not affect the accuracy of the DSTV file.

In the example below, the value is 16.
In the example below, the value is 1.

See also  Round chamfers does not appear round in model  
Chamfer accuracy for polybeams and contour plates

**XS_CHAMFER_DISPLAY_LENGTH_FACTOR**

**Category**  Model view  
Use to adjust chamfer length. Tekla Structures calculates plate chamfer length from the plate side length using the following formula:

\[ \text{XS_CHAMFER_DISPLAY_LENGTH_FACTOR} \times \text{plate side length} \]

By default, this factor is 0.08.

This advanced option is user-specific and the setting is saved in `options.bin` under user folder. Restart Tekla Structures to activate the new value.

**XS_CHANGE_DRAGGED_DIMENSIONS_TO_FIXED**

**Category**  Drawing Properties  
Use to define whether dimensions have fixed placing when you drag them away from their original locations. When set to `TRUE`, dimension placing uses fixed placing routine instead of free placing. `FALSE` keeps the placing free.
The default value is TRUE.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**XS_CHANGE_DRAGGED_MARKS_TO_FIXED**

**Category** Drawing Properties

Use to define whether part, bolt and reinforcement marks have fixed placing when you drag them away from their original locations. When set to TRUE, mark placing uses fixed placing routine instead of free placing.

The default value is TRUE.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**XS_CHANGE_DRAGGED_NOTES_TO_FIXED**

**Category** Drawing Properties

Use to define whether associative notes have fixed placing when you drag them away from their original locations. When set to TRUE, associative notes placing uses fixed placing routine instead of free placing. FALSE keeps the placing free.

The default value is TRUE.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**XS_CHANGE_DRAGGED_TEXTS_TO_FIXED**

**Category** Drawing Properties

Use to define whether texts have fixed placing when you drag them away from their original locations. When set to TRUE, text uses fixed placing routine instead of free placing. The default value is TRUE.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**XS_CHANGE_DRAGGED_VIEWS_TO_FIXED**

**Category** Drawing Properties
Use to define whether views have fixed placing when you drag them away from their original locations. When set to **TRUE**, view placing uses fixed placing routine instead of free placing. If you set this advanced option to **FALSE**, fixed placing is not used. The default value is **TRUE**.

This advanced option is user-specific and the setting is saved in *options.bin* under user folder. Restart Tekla Structures to activate the new value.

### XS_CHANGE_MARK_ASTERISK_TO

**Category**  Marking: parts

Use to specify a symbol to replace the asterisk character (*) in bolt marks and the size elements of part marks. The default value is asterisk (*).

This advanced option is model-specific and the setting is saved in the options database.

---

You cannot use this advanced option to change the asterisk character in profile strings (e.g. PL10*100).

**Example**  XS_CHANGE_MARK_ASTERISK_TO=X

### XS_CHANGE_WORKAREA_WHEN_MODIFYING_VIEW_DEPTH

**Category**  Model view

Makes working with reference files easier. Objects such as parts and reference files outside the work area are not visible, even when they are within the view depth range.

Set to **TRUE** (default) to automatically adjust the work area when you change the view depth.

### XS_CHECK_BOLT_EDGE_DISTANCE_ALWAYS

**Category**  Modeling Properties

Use this advanced option to select whether to check the bolt edge distance. Set to **TRUE** to always check the bolt edge distance and to **FALSE** to check it only when there are bolts in the object (the check is not done if there is only a hole).

The default value is **TRUE**.

This advanced option is user-specific and the setting is saved in *options.bin* under user folder. Restart Tekla Structures to activate the new value.
**XS_CHECK_FLAT_LENGTH_ALSO**

**Category** Plate Work

Set this advanced option to **TRUE** (default) to check plate length and plate width, and then compare those with the possible dimensions for flat bars in `fltprops.inp`.

If you set this advanced option to **FALSE**, Tekla Structures only checks the plate width.

This advanced option is model-specific and the setting is saved in the options database.

See also

**XS_CHECK_TRIANGLE_TEXT_SIZE**

**Category** Dimensioning: General

Set this advanced option to **TRUE** to size the triangle to fit text in bevel dimensions. The default value is **FALSE**.

![](image)

This advanced option is model-specific and the setting is saved in the options database.

To define the angle symbol size, use the advanced option `XS_ANGLE_DIMENSION_SYMBOL_SIZE_FACTOR`.

Using advanced option `XS_ANGLE_DIMENSION_SYMBOL_SIZE_FACTOR` will disable advanced option `XS_CHECK_TRIANGLE_TEXT_SIZE`.

See also **XS_ANGLE_DIMENSION_SYMBOL_SIZE_FACTOR** on page 36
XS_CHORD_TOLERANCE_FOR_SMALL_TUBE_SEGMENTS

Category  Speed and Accuracy
Use this advanced option to define the chord tolerance for round tubes smaller than or equal to the limit set by the advanced option XS_CHORD_TOLERANCE_SMALL_TUBE_SIZE_LIMIT. Enter the value in millimeters. The default value is 1.0.

See also  XS_CHORD_TOLERANCE_SMALL_TUBE_SIZE_LIMIT on page 70
XS_CHORD_TOLERANCE_FOR_TUBE_SEGMENTS on page 70

XS_CHORD_TOLERANCE_FOR_TUBE_SEGMENTS

Category  Speed and Accuracy
Use this advanced option to define the chord tolerance for round tubes larger than the limit set by the advanced option XS_CHORD_TOLERANCE_SMALL_TUBE_SIZE_LIMIT. Enter the value in millimeters. The default value is 1.0.

Chord tolerance  Chord tolerance is the maximum difference between a straight segment used to display a tubular section in model views and the actual tubular section:

Do not change the chord tolerance settings during a project. Changing them automatically recreates the tubular sections in the model when you restart Tekla Structures, resulting in slightly different solid objects, which may affect numbering.

See also  XS_CHORD_TOLERANCE_SMALL_TUBE_SIZE_LIMIT on page 70
XS_CHORD_TOLERANCE_FOR_SMALL_TUBE_SEGMENTS on page 69
XS_CHORD_TOLERANCE_SMALL_TUBE_SIZE_LIMIT

Category Speed and Accuracy

Use this advanced option to define the limit that determines whether a tube is considered small when calculating the chord tolerance. The value is compared to the diameter of the profile. Enter the value in millimeters. The default value is 50.0.

See also XS_CHORD_TOLERANCE_FOR_TUBE_SEGMENTS on page 70
XS_CHORD_TOLERANCE_FOR_SMALL_TUBE_SEGMENTS on page 69

XS_CIS_DEP1_DATABASE_NAME

Category Export

Use to define the name of the temporary database used in CIMsteel transfers.

This advanced option is system-specific and is read from environment files. Generally, there is no need to modify system-specific settings. Do not modify them if you are not an administrator.

XS_CIS_DEP1_DATABASE_PASSW

Category Export

Use to define the password for the temporary database used in CIMsteel transfers.

This advanced option is system-specific and is read from environment files. Generally, there is no need to modify system-specific settings. Do not modify them if you are not an administrator.

XS_CIS_DEP1_DATABASE_PATH

Category Export

Use to define a path to the temporary database that Tekla Structures creates while converting a model from/to CIMsteel STEP format.

This advanced option is system-specific and is read from environment files. Generally, there is no need to modify system-specific settings. Do not modify them if you are not an administrator.
XS_CIS_DEP1_EXPRESS_FILE

Category This advanced option can be set in initialization files.

Use this advanced option to specify the name of the EXPRESS file located in the system folder. The EXPRESS file describes the CIMsteel DEP1 logical product model. It is used when you convert a Tekla Structures model to/from CIMsteel DEP1 STEP format.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

XS_CLASH_CHECK_BETWEEN_PARTS

Category Modeling Properties

Set to FALSE to detect clashes only between Tekla Structures objects and reference model objects and to TRUE to detect clashes also between Tekla Structures objects. The default is TRUE.

See also XS_CLASH_CHECK_BETWEEN_REFERENCES on page 72
XS_CLASH_CHECK_INSIDE_REFERENCE_MODELS on page 73
XS_CLASH_CHECK_BETWEEN_REINFORCING_BARS on page 72

XS_CLASH_CHECK_BETWEEN_REFERENCES

Category Modeling Properties

Use to define whether or not Tekla Structures should run the clash check also between reference models.

Set to TRUE if you want to perform clash check also between two reference models. The default value is FALSE.

This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.

See also XS_CLASH_CHECK_BETWEEN_PARTS on page 72
XS_CLASH_CHECK_INSIDE_REFERENCE_MODELS on page 73
XS_CLASH_CHECK_BETWEEN_REINFORCING_BARS on page 72
**XS_CLASH_CHECK_BETWEEN_REINFORCING_BARS**

**Category** Modeling Properties

Set this advanced option to **TRUE** to detect clashes between Tekla Structures reinforcing bars, and between reinforcing bars and other Tekla Structures objects (steel parts, bolts, embeds, and reference objects). Set to **FALSE** to detect clashes between reinforcing bars and other Tekla Structures objects except between reinforcing bars. The default is **TRUE**.

This advanced option is model-specific and the setting is saved in the options database.

See also  
- **XS_CLASH_CHECK_BETWEEN_PARTS** on page 72
- **XS_CLASH_CHECK_BETWEEN_REFERENCES** on page 72
- **XS_CLASH_CHECK_INSIDE_REFERENCE_MODELS** on page 73

**XS_CLASH_CHECK_INSIDE_REFERENCE_MODELS**

**Category** Modeling Properties

Use this advanced option for defining whether internal clashes are checked in reference models.

The default value **FALSE** means that clashes between reference model objects within one reference model are ignored. Clashes between reference model objects belonging to different models are detected. The value **TRUE** means that clashes between reference model objects within one reference model are checked.

Note that this advanced option is taken into account only if the **XS_CLASH_CHECK_BETWEEN_REFERENCES** advanced option is set to **TRUE**.

See also  
- **XS_CLASH_CHECK_BETWEEN_REFERENCES** on page 72

**XS_CLEAR_MODEL_HISTORY**

**Category** Speed and Accuracy

If you use model history log files, set this advanced option to **TRUE** to clear history data from the log file each time you open and save the model. The default value is **FALSE**.

This advanced option is system-specific and is read from environment files. Generally, there is no need to modify system-specific settings. Do not modify them if you are not an administrator.

See also  
- **XS_COLLECT_MODEL_HISTORY** on page 75
XS_CLONING_TEMPLATE_DIRECTORY

Category  File Locations

Enter a path to the folder that contains cloning templates used by the Master Drawing Catalog. This advanced option is set to %XSDATADIR%\environments\common\cloning_templates by default.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

See also

XS_CLOUD_SHARING_PROXY

We recommend you to set this advanced option in the File --> Sharing --> Settings dialog box using the Tekla Model Sharing cache option.

Use to set up a cache server that is used with the Tekla Model Sharing sharing service.

If needed, the advanced option can also be set in initialization files. Set XS_CLOUD_SHARING_PROXY to name of the server;port in initialization files to enable the list.

This advanced option is user-specific.

XS_CNC_CUT_PLANE_HEIGHT

Category  CNC

Set this advanced option to a value between 0.3 and 1.0 if you get the following warning in the dstv_nc.log file for some NC files:

Error: Can't find intersection between solid and nc plane. Please try to adjust XS_CNC_CUT_PLANE_HEIGHT (0.3 .. 1.0)

You may get these warnings when you try to create NC files for folded parts. These NC files are not correct. For example, the external contours of the part may be entirely missing from the NC file. You will notice this, if you view a DXF file created from the NC file.

To use this advanced option, follow these steps:

1. Set this advanced option using a value bigger than 0.3. Start with smaller values first. The internal default value is 0.3.
2. Create the NC files for the problematic part.
3. Check the file dstv_nc.log, and if there is still warning for this part, repeat steps 1 to 4 with another value.

4. After creating the NC files without any error messages in the dstv_nc.log, remove the advanced option from the user.ini file as this advanced option may cause problems for some other parts.

This advanced option is model-specific and the setting is saved in the options database.

See also

**XS_CNC_HOLE_DIAMETER_ROUNDING**

Category  CNC

Defines the rounding factor of holes for NC files. NC files are accurate to 0.01 mm.

Use to round up bolt diameters with very small differences in diameter to the same value.

You may need to use different diameters because bolts can have different tolerance values in a Tekla Structures model. You can input more decimals into bolt tolerance values in the component dialog boxes than in the general bolt dialog box.

The rounding routine is used only when you create NC files.

Set the rounding factor the same value (in mm) as the drill tolerance of the machine tool.

The default value is 0.00001.

Tekla Structures divides the original hole diameter by the rounding factor, then rounds the result to the nearest integer, then multiplies it by the rounding factor. As a result, bolt diameters with very small differences in diameter are now rounded up to the same value.

This advanced option is model-specific and the setting is saved in the options database.

**Example**

Here the rounding factor is 1.5875 (1/16 inch), which results in the following:

- Diameter 26.99 mm (1\" 1/16 from component dialog box) => 26.99/1.5875 => 17.00 => 17 => 17*1.5875 => 26.99 mm
- Diameter 27.00 mm (1\" 1/16 from bolt dialog box) => 27.00/1.5875 => 17.01 => 17 => 17*1.5875 => 26.99 mm

**XS_COLLECT_MODEL_HISTORY**

Category  Speed and Accuracy

Tekla Structures is able to collect model history data on various objects, for example, parts in the inquire object dialog, reinforcing bars, and components in reports, etc. Set this advanced option to **TRUE** (default) to collect the data. If you do not want to collect the model history, set it to **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.
This advanced option works only in multi-user mode and in Tekla Model Sharing.

See also  XS_CLEAR_MODEL_HISTORY on page 73

**XS_COMBINED_BOLT_DIM_CHARACTER**

**Category**  Dimensioning: Bolts

Use to set the character in bolt dimensions. The default value is asterisk (*).

This advanced option is model-specific and the setting is saved in the options database.

**XS_COMPANY_SETTINGS_DIRECTORY**

**Category**  This advanced option can be set in initialization files.

Use this advanced option to define a folder where the initialization file `company.ini` is located. This file contains enterprise-level settings. You can define the folder, for example, in an `options.ini` file located under the model, firm or project folder.

**XS_COMPLEX_PART_MEMBERS_DO NOT HAVE TO BE MAIN PARTS**

**Category**  Dimensioning: Parts

Use in complex part/assembly dimensioning to have Tekla Structures dimension other than main parts as one. The default value is `FALSE`.

This advanced option is role-specific. When the type `SYSTEM(ROLE)` is in use, the default value is used. When the type `MODEL(ROLE)` or `DRAWING(ROLE)` is in use, you can change the value, which is then the same for all users in the current model.

**XS_COMPONENT_CATALOG_COLLECTION_NAME_LENGTH**

**Category**  Modeling Properties

Use this advanced option to adjust the length of the component names, then re-open the component catalog. The default is 25 characters.
This may increase the size of the component catalog dialog box.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

See also XS_COMPONENT_CATALOG_THUMBNAIL_SIZE on page 77

**XS_COMPONENT_CATALOG_THUMBNAIL_SIZE**

**Category**  Modeling Properties

Use to adjust the size of thumbnails to between 6 and 96 pixels. The default is 96 pixels. After changing the value, re-open the component catalog.

This may increase the size of the component catalog dialog box.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

See also XS_COMPONENT_CATALOG_COLLECTION_NAME_LENGTH on page 76

**XS_CONCRETE_PART_NUMBERING_PREFIX**

**Category**  Numbering

Use to define a numbering prefix for concrete parts. The default value is Concrete. This advanced option is model-specific and the setting is saved in the options database.

See also XS_CONCRETE_PART_NUMBERING_START_NUMBER on page 77

**XS_CONCRETE_PART_NUMBERING_START_NUMBER**

**Category**  Numbering

Use to define a start number for concrete parts. The default value is 1. This advanced option is model-specific and the setting is saved in the options database.
XS_CONCRETE_PART_NUMBERING_PREFIX on page 77

XS_CONNECTING_SIDE_MARK_SYMBOL

Category: Marking: Parts

Use to change the symbol for a connecting side mark. By default the side mark symbol is number 34 in the symbol file. To change the symbol, set this advanced option to a different symbol number.

This advanced option is model-specific and the setting is saved in the options database.

XS_CONNECT_CONNECTION_PARTS_IN_AUTOCONNECTION

Category: Components

Set this advanced option to FALSE (default) if you do not want to connect the parts created by the connection in Autoconnection. If you set it to TRUE, the the parts created by the connection are connected in Autoconnection.

This advanced option is model-specific and the setting is saved in the options database.

See also AutoConnection

XS_CONNECT_PLATE_PROFILES_IN_AUTOCONNECTION

Category: Components

Set to TRUE to enable AutoConnection for built-in members. If you set this advanced option to FALSE, Tekla Structures does not consider plates as members when you use AutoConnection. The default value is TRUE.

This advanced option is model-specific and the setting is saved in the options database.

XS_CONSIDER_NEIGHBOUR_PARTS_IN_HIDDEN

Category: Drawing Properties

Set this advanced option to TRUE (default) to draw parts behind neighbor using hidden lines. If you want to show parts behind neighboring parts using a visible line type, set this advanced option to FALSE.
<table>
<thead>
<tr>
<th>Setting</th>
<th>Example of appearance in drawing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set to <strong>TRUE</strong> (default). Parts behind neighbor parts are drawn with hidden lines.</td>
<td>![Example of appearance in drawing]</td>
</tr>
<tr>
<td>Set to <strong>FALSE</strong>. Parts behind neighbor parts are drawn with the visible line type.</td>
<td>![Example of appearance in drawing]</td>
</tr>
</tbody>
</table>

This advanced option is model-specific and the setting is saved in the options database.

**XS_CONSIDER_REBAR_NAME_IN_NUMBERING**

**Category**  Concrete Detailing

Set to **FALSE** to have Tekla Structures only take part names into account when numbering, not reinforcing bar names. The default value is **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.

**XS_CONTOUR_PLATE_POINT_ON SAME_LINE_LIMIT**

**Category**  Modeling Properties

Cleans away system component provided contour plate profile points in cases where points are on an almost straight line if the provided (middle) points deviate from the line at most as much as the value of this advanced option. The point is then so close to the line between the
previous and next point that it is redundant and can be removed. Enter a decimal value. The default is 1.0 mm.

This advanced option is model-specific and the setting is saved in the options database.

See also XS_CONTOUR_PLATE_POINT_ON_SAME_LINE_LIMIT_FOR_CLOSE_POINTS on page 80

XS_CONTOUR_PLATE_POINT_ON_SAME_LINE_LIMIT_FOR_CLOSE_POINTS

Category Modeling Properties

Cleans away system component provided contour plate profile points in cases where points are on an almost straight line if the provided (middle) points deviate from the line at most as much as the value of this advanced option. The point is then so close to the line between the previous and next point that it is redundant and can be removed. This advanced option is used if section point distances between two consecutive points are smaller than 10.0 mm. The default value for this advanced option is 0.1 mm.

This advanced option is model-specific and the setting is saved in the options database.

See also XS_CONTOUR_PLATE_POINT_ON_SAME_LINE_LIMIT on page 79

XS_CONVERT_OLD_FORCE_UNITS_TO_SI_FROM

Category Components

Use to define how to convert part and connection attribute tables when you open a Tekla Structures catalog prior to version 7.0.

You can use the following units: kg/T/N/daN/kN/lbf/kip, or a numerical value.

This advanced option is model-specific and the setting is saved in the options database.

Example To convert force units from kip to SI, set this advanced option to kip.

XS_CONVERT_OLD_MOMENT_UNITS_TO_SI_FROM

Category This advanced option can be set in initialization files.

Use to define how to convert part and connection attribute tables when you open a Tekla Structures catalog prior to version 7.0.

You can use the following units: kgm/Tm/daNm/kNm/lbf-in/lbf-ft/kip-in/kip-ft, or a numerical value.

Example To convert moment units from kip-ft to SI, set this advanced option to kip-ft.
**XS_COPY_REVISIONS_IN_AUTOMATIC_CLONING**

**Category** Drawing Properties

Set the advanced option `XS_COPY_REVISIONS_IN_AUTOMATIC_CLONING` to `TRUE` to copy the revisions and user-defined attributes to the automatically cloned drawings. `TRUE` is the default value.

This advanced option is model-specific and the setting is saved in the options database.

**XS_COUNT_ALL_PARTS_IN_NSFS_REPEATED_PART_MARK**

**Category** Marking: Parts

Use this advanced option to determine how the quantity of parts with merged part marks is shown. Set this advanced option to `TRUE` to count all parts. By default, this advanced option is set to `FALSE`.

This advanced option is role-specific. When the type `SYSTEM(ROLE)` is in use, the default value is used. When the type `MODEL(ROLE)` or `DRAWING(ROLE)` is in use, you can change the value, which is then the same for all users in the current model.

**Example** When there are four or more identical stiffeners on both sides of a beam web, the mark is
- `4x1002BS` if `XS_COUNT_ALL_PARTS_IN_NSFS_REPEATED_PART_MARK` is set to `TRUE`.
- `2x1002BS` if `XS_COUNT_ALL_PARTS_IN_NSFS_REPEATED_PART_MARK` is set to `FALSE`.

See also [XS_COUNT_BOTH_PARTS_IN_NSFS_PART_MARK on page 81](#)

**XS_COUNT_BOTH_PARTS_IN_NSFS_PART_MARK**

**Category** Marking: Parts

Use this advanced option to determine how the quantity of parts with merged part marks is shown. Set this advanced option to `TRUE` to count both parts. If you do not want to do this, set it to `FALSE` (default).

This advanced option is role-specific. When the type `SYSTEM(ROLE)` is in use, the default value is used. When the type `MODEL(ROLE)` or `DRAWING(ROLE)` is in use, you can change the value, which is then the same for all users in the current model.

**Example** When there are two identical stiffeners on both sides of a beam web, the mark is
- `2x1002BS` if `XS_COUNT_BOTH_PARTS_IN_NSFS_PART_MARK` is set to `TRUE`.

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• 1002BS if XS_COUNT_BOTH_PRTS_IN_NSFS_PRT_MARK=FALSE.

See also XS_COUNT_ALL_PRTS_IN_NSFS_REPEATED_PRT_MARK on page 81

XS_CREATE_ALSO_BIG_HTML_REPORT_PICTURES

Category Concrete Detailing

Set to TRUE to create an additional set of pictures to the report folder. The pictures are three times larger in size compared to the ones in the HTML report. The default is FALSE.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

XS_CREATE_DRAWING_PREVIEW_AUTOMATICALLY

Category Drawing Properties

Set this advanced option to TRUE to take a snapshot of a drawing each time the drawing is saved. The snapshot is saved in the drawing folder under the current model folder. The snapshot is used as the default preview image for the drawing in the Master Drawing Catalog. If you set this advanced option to FALSE, the snapshot is not taken. The default value is FALSE.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

XS_CREATE_MISSING_MARKS_IN_INTELLIGENT_CLONING

Category Marking: General

Use to create all marks to a cloned drawing where new parts have been added. To create the marks, set the advanced option to TRUE. The default is FALSE.

This advanced option is model-specific and the setting is saved in the options database.

See also

XS_CREATE_ROUND_HOLE_DIMENSIONS

Category Dimensioning: Parts

Enter TRUE (default) to dimension the round hole center point in drawings.
This advanced option does not apply to automatic general arrangement drawing dimensions.
This advanced option is model-specific and the setting is saved in the options database.

**XS_CREATE_CONNECTION_WHEN_COPYING_DRAWING_VIEWS**

**Category**  Drawing Properties

Set to TRUE to link copied views to the original drawing. This means, for example, that when you delete a drawing from which you copied a view, Tekla Structures also deletes the copied view. The default value is FALSE.

This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.

**XS_CREATE_VIEW_FROM_MODEL_OLD_WAY**

**Category**  Drawing View

Use this advanced option to specify which values Tekla Structures uses for drawing view boundaries in general arrangement drawings. This only affects views created from the model.

If you set this advanced option to FALSE (default), the drawing view boundaries values are based on the current work area x and y coordinates of a model view.
When this advanced option is set to TRUE, the drawing view boundary values are based on the entire model view, ignoring the work area settings.
In both cases depth values are based on the model view display depth values.
This advanced option is model-specific and the setting is saved in the options database.

**XS_CS_CHAMFER_DIVIDE_ANGLE**

**Category** Speed and accuracy

Use this advanced option to change the angles dividing a cross section chamfer. The default value is 30.0 degrees.

Using this advanced option affects the rounding radius for parts that have high accuracy (for example parts in drawings and in DWG export).

**Example**

```
XS_CS_CHAMFER_DIVIDE_ANGLE=10.0
```

**XS_CURVED_AXIS_PLACE**

**Category** Profiles

By default, Tekla Structures calculates the length of curved parts along the center axis. Use this advanced option to define the position of this axis as a ratio.
Tekla Structures calculates the location of the axis using the formula $h=H/2.0\cdot\text{ratio}$. The default value is zero (0). Define the ratio as 1.0 to calculate length along the upper flange. Define the ratio as -1.0 to define the length along the lower flange.

This value is used in reports and drawing templates.

**XS_CUT_SYMBOL_FONT**

**Category** Drawing Properties

Use to define the font for section symbol text. The default value is Arial. If you do not specify a font, Tekla Structures uses the default font defined for **XS_DEFAULT_FONT**.

This advanced option is model-specific and the setting is saved in the options database.

**See also** [XS_DEFAULT_FONT on page 87](#)

**XS_CYCLIC_SOLVER_MAX_LOOPS**

**Category** Modeling properties

Use to define how many cycles Tekla Structures makes to solve the dependencies in custom components. Enter a number for the amount of cycle loops. The default is 2.

This advanced option is model-specific and the setting is saved in the options database.

**2.4 D**

**DAK_BMPPATH**

This advanced option can be set in initialization files.

This advanced option is system-specific and is read from `teklastructures.ini`. Generally, there is no need to modify system-specific settings. Do not modify them if you are not an administrator.

Use to point to the folder for bitmap files used in
- custom components
- user-defined attributes (`objects.inp` file)
- profile catalog
- some system components
You can use semicolon-separated lists of folder paths, see an example below. This advanced option is defined in the teklastructures.ini file and it points to the folder ..\ProgramData\Tekla Structures\<version>\Bitmaps

If you want to use another folder:

1. Copy the entire contents of the ..\ProgramData\Tekla Structures\<version>\Bitmaps folder to the new location.
2. Add DAK_BMPPATH to the user.ini file with the new path.

Example

```plaintext
set DAK_BMPPATH=%XSDATADIR%\Bitmaps\n
set DAK_BMPPATH=%XSDATADIR%\Bitmaps\;H:\Tekla\bitmap\n```

XSDATADIR

Category This advanced option can be set in initialization files.

This advanced option is system-specific and is read from teklastructures.ini. It can also be set locally, see your environment ini file (env_<environment_name>.ini). Generally, there is no need to modify system-specific settings. Do not modify them if you are not an administrator.

XSDATADIR is defined in the teklastructures.ini file. It points to a location, where the installation installs the environment files and folders.

Example By default, this advanced option is set as follows: set XSDATADIR=C:\ProgramData\Tekla Structures\<version>\n
See also

XS_DEFAULT_BREP_PATH

This advanced option can be set in initialization files.

Use to define the location of the default shapes that are available in the Shape Catalog dialog box when you create a new model. By default, this advanced option is set to point to the common environment, and the definition files of the default shapes are read from the \Shapes and \ShapeGeometries folders under the \profil folder.

Example To have Tekla Structures read the default shapes from the US imperial environment, set this advanced option as follows:

```plaintext
set XS_DEFAULT_BREP_PATH=%XSDATADIR%\environments\usimp\n
or
set XS_DEFAULT_BREP_PATH=C:\ProgramData\Tekla Structures\<version>\environments\usimp\n```
**XS_DEFAULT_ENVIRONMENT**

**Category**  This advanced option can be set in initialization files.

Use together with `XS_DEFAULT_LICENSE` and `XS_DEFAULT_ROLE` for bypassing the login dialog. Set these advanced options in a separate initialization file, and point to that file using the `-I` (capital I) parameter in the Tekla Structures shortcut. The parameter is used to point to a file which needs to be read before other initialization files.

If roles are used in your environment, both `XS_DEFAULT_ENVIRONMENT` and `XS_DEFAULT_ROLE` should be set for the startup to work correctly. `XS_DEFAULT_LICENSE` is optional.

**Example**  set XS_DEFAULT_ENVIRONMENT= C:\TeklaStructures\16.0\environments\usimp\env_US_imperial.ini

**See also**  `XS_DEFAULT_ROLE` on page 90  
`XS_DEFAULT_LICENSE` on page 89

**XS_DEFAULT_FONT**

**Category**  Model view

Use to specify the default font in the model and drawings, for example, when creating grids, dimensions, and mark texts. Enter the name of any Windows font, for example, Arial Narrow. The default value is Arial Black.

If any of the following advanced options are not set, or if font conversion is needed in drawings, Tekla Structures uses this advanced option:

- `XS_CUT_SYMBOL_FONT`
- `XS_DIMENSION_FONT`
- `XS_GRID_TEXT_FONT`
- `XS_MARK_FONT`
- `XS_VIEW_TITLE_FONT`
- `XS_WELD_FONT`
For example, if $\text{XS\_MARK\_FONT}$ has no value set and you open an old model with a newer version of Tekla Structures, $\text{XS\_DEFAULT\_FONT}$ is used when converting marks to the new model database.

This advanced option is user-specific and the setting is saved in $\text{options.bin}$ under user folder. Restart Tekla Structures to activate the new value.

**See also**  
- $\text{XS\_DEFAULT\_FONT\_SIZE}$ on page 88  
- $\text{XS\_CUT\_SYMBOL\_FONT}$ on page 85  
- $\text{XS\_DIMENSION\_FONT}$ on page 97  
- $\text{XS\_GRID\_TEXT\_FONT}$ on page 175  
- $\text{XS\_MARK\_FONT}$ on page 199  
- $\text{XS\_VIEW\_TITLE\_FONT}$ on page 336  
- $\text{XS\_WELD\_FONT}$ on page 339

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**XS\_DEFAULT\_FONT\_SIZE**

**Category**  
Model View

Use to set the default font size when modeling. The default value is 12.

This advanced option is user-specific and the setting is saved in $\text{options.bin}$ under user folder. Restart Tekla Structures to activate the new value.

**XS\_DEFAULT\_FONT\_SIZE\_GRID**

**Category**  
Model View

Use this advanced option to define the font size for grids in models. The default value is 12.

This advanced option is user-specific and the setting is saved in $\text{options.bin}$ under user folder. Restart Tekla Structures to activate the new value.

**XS\_DEFAULT\_HEIGHT\_FOR\_CALCULATED\_DRAWING\_SIZE**

**Category**  
Drawing Properties

Use to change the default height for the calculated drawing size. Enter the value in millimeters. The default value is 287.

This advanced option is model-specific and the setting is saved in the options database.

**See also**  
Defining calculated sizes
XS_DEFAULT_LICENSE

Category  This advanced option can be set in initialization files.

Use to set the default license for a user role. The advanced option can be used either in a role-specific initialization file (role_*.ini) for setting the default license for a selected role, or in a separate initialization file together with XS_DEFAULT_ROLE and XS_DEFAULT_ENVIRONMENT for bypassing the login dialog.

If roles are used in your environment, both XS_DEFAULT_ENVIRONMENT and XS_DEFAULT_ROLE should be set for the startup to work correctly. XS_DEFAULT_LICENSE must be set if there are more than one license type available.

Possible values are:

- PROJECT_VIEWER
- DRAFTER
- CONSTRUCTION_MODELING
- ENGINEERING
- CAST_IN_PLACE
- PRIMARY
- PRECAST_CONCRETE_DETAILING
- STEEL_DETAILING
- FULL
- EDUCATIONAL
- DEVELOPER

XS_DEFAULT_MODEL_TEMPLATE

Category  This advanced option can be set in initialization files.

Use to define the model template which is used as the default in the New dialog box when you are creating a new model.

Define a value for the advanced option in the role initialization files, available in your environment folders. Store the default model template to the folder defined by the advanced option XS_MODEL_TEMPLATE_DIRECTORY.

If this advanced option is not set, the model template used last is displayed in the New dialog box.
Example  set XS_DEFAULT_MODEL_TEMPLATE=EngineeringTemplate
See also  XS_MODEL_TEMPLATE_DIRECTORY on page 212

**XS_DEFAULT_ROLE**

**Category**  This advanced option can be set in initialization files.

Use together with **XS_DEFAULT_LICENSE** and **XS_DEFAULT_ENVIRONMENT** for bypassing the login dialog. Set these advanced options in a separate initialization file, and point to that file using the -I (capital i) parameter in the Tekla Structures shortcut. The parameter is used to point to a file which needs to be read before other initialization files.

If roles are used in your environment, both **XS_DEFAULT_ENVIRONMENT** and **XS_DEFAULT_ROLE** should be set for the startup to work correctly. **XS_DEFAULT_LICENSE** is optional.

Example  set XS_DEFAULT_ROLE=C:\TeklaStructures\16.0\environments\usimp\Role_Steel_Detailing.ini

**XS_DEFAULT_WIDTH_FOR_CALCULATED_DRAWING_SIZE**

**Category**  Drawing Properties

Use to change the default width for the calculated drawing size. Enter the value in millimeters. The default is 410.

This advanced option is model-specific and the setting is saved in the options database.

See also

**XS_DELETE_UNNECESSARY_DG_FILES**

**Category**  Drawing Properties

Set the advanced option to **TRUE** (default) to delete unnecessary drawing files. If you do not want to do this, set it to **FALSE**. This advanced option deletes the dg files older than seven days, which is the default value for the advanced option **XS_DELETE_UNNECESSARY_DG_FILES_SAFETY_PERIOD**.

This advanced option is model-specific and the setting is saved in the options database.

See also  **XS_DELETE_UNNECESSARY_DG_FILES_SAFETY_PERIOD** on page 91

Alphabetical list of advanced options  90  D
**XS_DELETE_UNNECESSARY_DG_FILES_SAFETY_PERIOD**

*Category*  
Drawing Properties

Defines the time frame after which unnecessary drawing files are deleted. Enter the required time frame in days. The advanced option is set to 7 by default.

We recommend that you do not modify the value of this advanced option unless you are an experienced Tekla Structures user.

This advanced option is model-specific and the setting is saved in the options database.

See also  
**XS_DELETE_UNNECESSARY_DG_FILES on page 90**

**XS_DELETE_UNNECESSARY_INT ARRAYS**

*Category*  
Speed and Accuracy

Set to TRUE to have Tekla Structures clean also the int arrays when you use the command Tools --> Diagnose and Repair Model --> Repair Model. The default value is FALSE.

This setting reduces the model size in some cases but should be used with caution. Create a backup copy of the model before you use this advanced option.

**XS_DETAIL_BOUNDARY_RADIUS**

*Category*  
Drawing Properties

Use to define a fixed size for circle-shaped detail boundaries in detail views.

Enter a numeric value in millimeters for the radius. By default, no size is set.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DETAIL_MARK_REFERENCE_SYMBOL**

*Category*  
Drawing Properties

If you have set Symbol to Custom on the Detail mark tab page of the Detail symbol properties dialog box, Tekla Structures uses the value that you have set to this advanced
option. For example, if you enter xsteel@3, Tekla Structures uses the symbol number 3 in symbol file xsteel.sym.

This advanced option is model-specific and the setting is saved in the options database.

See also

**XS_DETAIL_SYMBOL_REFERENCE**

**Category** Drawing Properties

Sets the reference text for symbols that show a detail from another drawing. The text can include:

- free text
- user-defined attributes
- template attributes

In the Advanced options dialog box, use single % characters around the user-defined and template attributes. %DRAWING_TITLE% is the default value. %TITLE% gives the same result. This advanced option gets the drawing name entered in the drawing properties dialog box. If you enter TITLE1 – TITLE3, Tekla Structures gets the drawing title from the drawing properties dialog box. You can also use the format DR_TITLE1 – DR_TITLE3.

This advanced option is model-specific and the setting is saved in the options database.
XS_DETAIL_VIEW_REFERENCE

Category  Drawing Properties

Set the reference text for detail view labels. You can enter free text, user-defined, attributes, and template attributes.

Use single % characters around the user-defined and template attributes. %DRAWING_TITLE% is the default value. %TITLE% gives the same result. This advanced option gets the drawing name entered in the drawing properties dialog box. If you enter TITLE1 - TITLE3, Tekla Structures gets the drawing title from the drawing properties dialog box. You can also use the format DR_TITLE1 - DR_TITLE3.

This advanced option is model-specific and the setting is saved in the options database.

See also  XS_DETAIL_SYMBOL_REFERENCE on page 92

XS_DGN_EXPORT_PART_AS

Category  This advanced option can be set in initialization files.

Use to specify how Tekla Structures exports solid objects to DGN format.

- Set to CELL to export solid objects as cells containing the solid faces as a DGN shape.
- Set to SOLID to export solid objects as DGN solid objects defined by boundary elements.

The default value is CELL.
**XS_DGN_EXPORT_USE_LOCAL_ID**

**Category** Export

Set this advanced option to **TRUE** to enable the use of local ID numbers in 3D DGN export. Every exported part gets a unique ID number starting from 1. The ID is saved as a user-defined attribute, and the same ID will be used in consequent exports. The default value is **TRUE**.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DIALOG_ENABLE_STATE**

This advanced option can be set in initialization files.

Use this advanced option to remove selections from dialog box check boxes. **TRUE** is the default value.

**XS_DIMENSION_ALL_BOLT_GROUPS_SEPARATELY**

**Category** Dimensioning: Bolts

Set this advanced option to **TRUE** to prevent Tekla Structures from combining bolt group dimensions. To combine bolt group dimensions, set it to **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DIMENSION_DECIMAL_SEPARATOR**

**Category** Dimensioning: General

Use to define the character to be used as a decimal separator in dimensions and level marks. The default value is a full stop (.)

**XS_DIMENSION_DECIMAL_SEPARATOR = <separator character>**.

This advanced option is model-specific and the setting is saved in the options database.

---

With this advanced option, you can change the separators in dimension objects in drawings only, not in part marks or templates.

**Example** In the following example, the dimension mark contains a comma when the dimension settings in the Dimension Properties dialog box are as follows, and the advanced option is set to **XS_DIMENSION_DECIMAL_SEPARATOR=,**
In the following example, the separator was first a period and was then changed to a comma.

**XS_DIMENSION_DIGIT_GROUPING_CHARACTER**

**Category**  Dimensioning: General

Use to specify which separator character to use in large dimension values. If you enter a comma (,), 154321 would become 154,321. If you do not specify a character, Tekla Structures uses a space in dimensions when you set grouping to Yes in Dimension properties > General > Use grouping. By default, no value is set.

This advanced option is model-specific and the setting is saved in the options database.

**See also**  XS_DIMENSION_DIGIT_GROUPING_COUNT on page 95
**XS_DIMENSION_DIGIT_GROUPING_COUNT**

Category Dimensioning: general

Use to specify the number of digits after which a separator character will be inserted in dimension values. If you set this advanced option to 3 (default), 154321 becomes 154 321.

This advanced option is model-specific and the setting is saved in the options database.

See also **XS_DIMENSION_DIGIT_GROUPING_CHARACTER** on page 95

**XS_DIMENSION_EXTENSION_LINE_AWAY_FACTOR**

Category Dimensioning: General

Use to adjust the length of the dimension extension lines that are facing away from the dimension points. Define the length as a factor for the dimension text size. The default is 1.0 (text height * 1.0).

This option is used only when the option Short extension line is set to Yes or On grid lines only in the Dimension Properties dialog box.

This advanced option is model-specific and the setting is saved in the options database.

See also Setting the dimension extension line length

**XS_DIMENSION_EXTENSION_LINE_ORIGIN_OFFSET**

Category Dimensioning: General

Use to specify the distance between the extension line origin and the start of the extension line (extension line origin offset). The default value is 1.

This advanced option is model-specific and the setting is saved in the options database.

In the following example, extension line origin offset is defined:
**XS_DIMENSION_EXTENSION_LINE_TOWARD_FACTOR**

**Category**  Dimensioning: General

Use to adjust the length of the dimension extension lines that are facing towards the dimension points. Define the length as a factor for the dimension text size. The default is 1.5 (text height * 1.5).

This option is used only when the option *Short extension line* is set to *Yes* or *On grid lines only* in the Dimension Properties dialog box.

This advanced option is model-specific and the setting is saved in the options database.

**See also**

**XS_DIMENSION_FONT**

**Category**  Drawing Properties

Use to specify the font for dimension text. The default value is Arial. If you do not specify a font, Tekla Structures uses the default font defined for *XS_DEFAULT_FONT* instead.

This advanced option is model-specific and the setting is saved in the options database.

**See also**  *XS_DEFAULT_FONT on page 87*

**XS_DIMENSION_GROUPING_COUNT_SEPARATOR**

**Category**  Dimensioning: General

Use to define the symbol that is displayed between the quantity and the automatic tag text in grouped dimensions. The default is x.

This advanced option is model-specific and the setting is saved in the options database.

**See also**

**XS_DIMENSION_LINE_TEXT_EPS**

This advanced option has been removed, please use the advanced option *XS_TEXT_ORIENTATION_EPSILON on page 297* instead.
**XS_DIMENSION_MARK_CONNECTOR**

**Category**  Dimensioning: General

Use this advanced option to change the character that is used in dimension tags when the dimension tag displays the properties of the different objects dimensioned, for example, different part positions, and one dimension line is used. A plus sign is used by default.

This advanced option is model-specific and the setting is saved in the options database.

---

**XS_DIMENSION_MARK_MULTIPLIER**

**Category**  Dimensioning: General

Use this advanced option to change the multiplication sign when there are several parts that have the same mark content, for example, HEA400 + 2 x HEA300. This advanced option has effect only if you have selected Include part count in tag in the Dimension Properties dialog box. x is the default value.

This advanced option is model-specific and the setting is saved in the options database.

---

**XS_DIMENSION_PART_MARK_CONTENT_IN_ASSEMBLY**

**Category**  Dimensioning: Parts

Use for defining the content of the part mark placed next to the dimension line label in assembly drawings. Give any combination of the switches.

The available switches are:

- PROFILE
- MATERIAL
- SIZE
- LENGTH
- COMMENT
- WPDIST (distance between work points)
- GR_L (gross length of the part)

If you want to display the part mark content in the same order as the switches, set XS_DIMENSION_PART_MARK_CONTENT_STRICT_POSITION to TRUE.

This advanced option is role-specific. When you change the value, it changes from system- to model-specific, and its value is the same for all users in the current model.

Example

XS_DIMENSION_PART_MARK_CONTENT_IN_ASSEMBLY=PROFILE_AND_LENGTH

XS_DIMENSION_PART_MARK_CONTENT_IN_ASSEMBLY=PROFILE_AND_GR_L

See also

XS_DIMENSION_PART_MARK_CONTENT_IN_SINGLE on page 99
XS_DIMENSION_PART_MARK_CONTENT_STRICT_POSITION on page 100

**XS_DIMENSION_PART_MARK_CONTENT_IN_SINGLE**

**Category** Dimensioning: Parts

Use to define the content of the part mark that is placed next to the dimension line label in single-part drawings. Give any combination of the switches.

The available switches are:

- PROFILE
- MATERIAL
- SIZE
- LENGTH
- COMMENT
- WPDIST (distance between work points)
- GR_L (gross length of the part)

If you want to display the part mark content in the same order as the switches, set XS_DIMENSION_PART_MARK_CONTENT_STRICT_POSITION to TRUE.

This advanced option is model-specific and the setting is saved in the options database.
**XS_DIMENSION_PART_MARK_CONTENT_IN_SINGLE=PROFILE_AND_MATERIAL**

**XS_DIMENSION_PART_MARK_CONTENT_IN_SINGLE=PROFILE_AND_GR_L**

**See also**  
XS_DIMENSION_PART_MARK_CONTENT_IN_ASSEMBLY on page 98  
XS_DIMENSION_PART_MARK_CONTENT STRICT_POSITION on page 100

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**XS_DIMENSION_PART_MARK_CONTENT STRICT_POSITION**

**Category** Dimensioning: Parts

Use for controlling the order of the switches in  
XS_DIMENSION_PART_MARK_CONTENT IN ASSEMBLY and  
XS_DIMENSION_PART_MARK_CONTENT IN SINGLE and thus the order of the part mark content in assembly and single drawings.

When set to TRUE, you can freely select the order of the switches in  
XS_DIMENSION_PART_MARK_CONTENT IN ASSEMBLY and  
XS_DIMENSION_PART_MARK_CONTENT IN SINGLE, and the part mark content follows the order of the switches. The default value is FALSE.

This advanced option is model-specific and the setting is saved in the options database.

**See also**  
XS_DIMENSION_PART_MARK_CONTENT IN ASSEMBLY on page 98  
XS_DIMENSION_PART_MARK_CONTENT IN SINGLE on page 99

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**XS_DIMENSION_PLATE_SIDE_MARK_SYMBOL_CENTER**

**Category** Dimensioning: General

Use this advanced option to define the symbol Tekla Structures uses in center plate side marks. The default value is 1. Tekla Structures uses the symbols defined in  
dimension_marks.sym file located usually in the folder ..\Tekla Structures  
\<version>\environments\common\symbols\.

This advanced option is model-specific and the setting is saved in the options database.

---

**XS_DIMENSION_PLATE_SIDE_MARK_SYMBOL_LEFT**

**Category** Dimensioning: General

Use this advanced option to define the symbol Tekla Structures uses in left plate side marks. The default value is 0. Tekla Structures uses the symbols defined in
dimension_marks.sym file located usually in the folder ..\Tekla Structures \<version>\environments\common\symbols\.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DIMENSION_PLATE_SIDE_MARK_SYMBOL_RIGHT**

**Category** Dimensioning: General

Use this advanced option to define the symbol Tekla Structures uses in right plate side marks. The default value is 2. Tekla Structures uses the symbols defined in dimension_marks.sym file located usually in the folder ..\Tekla Structures \<version>\environments\common\symbols\.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DIMENSION_SKEWED_BOLTS_IN_PART_PLANE_IN_SINGLE_DRAWINGS**

**Category** Dimensioning: Bolts

Set this advanced option to TRUE to dimension bolts perpendicular to the part plane in single-part drawings. If you do not want to do this, set it to FALSE. The default value is TRUE.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DIR**

**Category** This advanced option can be set in initialization files.

This advanced option points to the folder for Tekla Structures data, source, and binary files. This advanced option is system-specific and is read from teklastructures.ini. Generally, there is no need to modify system-specific settings. Do not modify them if you are not an administrator.

**XS_DISABLE_ADVANCED_OPTIONS**

**Category** This advanced option can be set in initialization files.
You can disable the Advanced Options dialog box so that the advanced options can be edited only in the initialization files.

To disable the dialog box, set this advanced option to TRUE. If you do not want to disable the dialog box, set it to FALSE. The default value is FALSE.

See also

**XS_DISABLE_ANALYSIS_AND_DESIGN**

**Category** Analysis & Design

Set to TRUE to disable the following analysis and design tools from the Tekla Structures user interface:

- The following command from the Analysis menu and the related icons from the Loads and Analysis toolbar:
  - Analysis & Design Models
- The following tabs from the part properties dialog boxes:
  - Analysis
  - Loading
  - Composite
  - Spanning
  - Start releases
  - End releases
  - Design
- The two Analysis tabs from the parts' user-defined attributes dialog boxes

The default value is FALSE.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**XS_DISABLE_CANCEL_DIALOG_FOR_SAVE_NUMBERING_SAVE**

**Category** Numbering

Use to revert to the old numbering functionality that offers no option to cancel numbering before the second save is made. The default value is FALSE.

This advanced option is model-specific and the setting is saved in the options database.
XS_DISABLE_CIS2

**Category** Analysis & Design

Use to hide or display the CIMSteel command.

To hide the CIMSteel command in the File --> Export and File --> Import menus, set the XS_DISABLE_CIS2 advanced option to TRUE. The default value is FALSE.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

XS_DISABLE_CLASSIFIER_FOR_MODIFIED_PARTS

**Category** Drawing Properties

Use to disable the Detailed object level settings check for modified parts. When you change part properties in a model after you have defined the Detailed object level settings, part presentation and mark content are updated in general arrangement drawings unless you have set this advanced option to TRUE.

To disable the check for modified parts, set the advanced option to TRUE.

To enable the check for modified parts, set the advanced option to FALSE. The default value is FALSE.

Drawings are not updated if the change does not affect numbering.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

XS_DISABLE_DRAWING_PLOT_DATE

**Category** Drawing Properties

Set this advanced option to TRUE to disable the print date information in drawings.

Disabling the print date helps to avoid possible conflicts when working with multi-user models in situations where a user modifies drawings while another user prints the same drawings. Set to FALSE to have the print date information.

By default, the advanced option is set to TRUE.

This advanced option is model-specific and the setting is saved in the options database.
**XS_DISABLE_PARTIAL_REFRESH**

Category: Model View

Set this advanced option to TRUE to disable partial refreshing of OpenGL windows. This advanced option is for older ATI graphics cards. If you do not want to disable the partial refresh, set the advanced option to FALSE.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**XS_DISABLE_REBAR_MODELING**

Category: Analysis & Design

If you set this advanced option to TRUE, Tekla Structures removes reinforcing bar modeling module, even if you have a license for this module. This license is always included, except in the Viewer configuration. The default is FALSE.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**XS_DISABLE_TEMPLATE_DOUBLE_CLICK**

Category: Drawing Properties

Use to define whether the template is opened when you double-click a template table in a drawings.

When set to TRUE, the Drawing Properties dialog box is shown when you double-click the template table.

When set to FALSE, the Template Editor will be opened when you double-click a template table.

By default, the advanced option is set to FALSE.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**XS_DISABLE_VIEW_CENTERING_ASSEMBLY**

Category: Drawing View
Use to left-align and/or top-align assembly drawing views. You can use values **HOR** (left-align), **VER** (top-align), **TRUE** (left-align and top-align), or **FALSE** (no alignment). Leaving out the value gives the same result as **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DISABLE_VIEW_CENTERING_GA**

**Category** Drawing View

Use to left-align or top-align GA drawing views. You can use values **HOR** (left-align), **VER** (top-align), or both. For creating centered views, leave this advanced option empty.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DISABLE_VIEW_CENTERING_MULTI**

**Category** Drawing View

Use to left-align or top-align multidrawing views. You can use values **HOR** (left-align), **VER** (top-align), or both.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DISABLE_VIEW_CENTERING_SINGLE**

**Category** Drawing View

Use to left-align or top-align single-part drawing views. You can use values **HOR** (left-align), **VER** (top-align), or both.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DISABLE_WELD_PREP_SOLID**

**Category** This advanced option can be set in initialization files.

This advance option is no longer recommended for customer use.

Set this advanced option to **TRUE** to disable automatic weld preparation when using certain weld types. Set it to **FALSE** to enable automatic weld preparation. The default value is **TRUE**.
The automatic weld preparation functionality is being developed further. For this reason we recommend you to keep this option set to TRUE.

Some components, like Stiffeners (1003) and Multiple Stiffeners (1064) also create weld preparations, but they are always visible and this setting does not affect to them.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DISPLAY_DIMENSIONS_WHEN_CREATING_OBJECTS**

*Category* Model View

Use for defining whether dimensions and dimension lines are displayed when model objects are created.

When set to TRUE (default), Tekla Structures displays the dimensions and dimension lines. Dimensions and dimension lines are displayed when you create a new model object and pick the start point and the intermediate or end points for the object.

If you set this advanced option to FALSE, the dimensions are not displayed.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**XS_DISPLAY_DIMENSIONS_WHEN_SELECTING_OBJECTS**

*Category* Model View

Use for defining whether dimensions and dimension lines are displayed when you select a column or a beam.

Dimensions and dimension lines are displayed when you select a column or a beam, or when you select multiple objects by picking them. The dimensions are not displayed if a command is running, or if you select multiple objects with area selection.

When set to TRUE (default), Tekla Structures displays the dimensions and dimension lines.

When set to FALSE, the dimensions and dimension lines are not displayed.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**XS_DISPLAY_ZERO_INCHES**

*Category* Imperial units

Alphabetical list of advanced options 106 D
Set this advanced option to TRUE to display zero inches. If you do not want to display zero inches, set it to FALSE. The default value is FALSE.

Using this advanced option affects the results you get with the inquire tool, and the dimensions in the model and drawings.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DISTANT_OBJECT_FINDER_TOLERANCE**

**Category** Model View

Use to set the minimum distance from the nearest part for the reporting of distant objects. The object must be located outside this distance for it to be listed by the **Find Distant Objects** tool.

The distance is measured from the nearest part. Enter the value in meters. The default value is 100.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DO_NOT_CREATE_ASSEMBLY_DRAWINGS_FOR_CONCRETE_PARTS**

**Category** Drawing Properties

Use to control the creation of single-part and assembly drawings from concrete parts.

To enable the creation of drawings, set the advanced option to FALSE.

To disable the creation of drawings, set the advanced option to TRUE (default).

This advanced option is model-specific and the setting is saved in the options database.

**XS_DO_NOT_CREATE_ASSEMBLY_DRAWINGS_FOR_LOOSE_PARTS**

**Category** Drawing Properties

Use this advanced option for defining whether assembly drawings are created for assemblies that contain only one part.

When you set this advanced option to TRUE, Tekla Structures does not create assembly drawings for single-part assemblies. The default value is FALSE.

This advanced option is model-specific and the setting is saved in the options database.
XS_DO_NOT_CREATE_BOLT_MARKS_IN_ALLINCLUDED_SINGLE_VIEWS

Category Single Part View in Assembly Drawing
Use to prevent the creating of bolt marks in included single views.
Enter TRUE to exclude the bolt marks, FALSE to create the bolt marks. The default is FALSE.
This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

XS_DO_NOT_CREATE_PART_MARKS_IN_ALLINCLUDED_SINGLE_VIEWS

Category Single Part View in Assembly Drawing
Use to prevent the creating of part marks in included single part views.
Enter TRUE to exclude the part marks and FALSE to create the part marks. The default is FALSE.
This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

XS_DO_NOT_CREATE_PROFILE_DIMENSIONS_FOR_CONCRETE

Contents Drawing Properties
Set this advanced option to TRUE to prevent Tekla Structures from automatically displaying the profile dimensions of concrete parts in cast unit drawings. If you want to display the profile dimensions, set it to FALSE.
This advanced option is model-specific and the setting is saved in the options database.

XS_DO_NOT_DISPLAY_CHAMFERS

Category Model View
Set this advanced option to TRUE to draw polygon plates without chamfers. If you want to display the chamfers, set this advanced option to FALSE. The default value is FALSE.
This advanced option affects only rendered views.
This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.
XS_DO_NOT_DRAW_COLUMN_MARKS_AT_45_DEGREES_IN_GA_DRAWING

Category Marking: Parts

Tekla Structures places column mark texts in general arrangement drawing plan views by default at an angle of 45 degrees in respect to the position of the column. To place the marks horizontally, set this advanced option to TRUE. If you set this advanced option to FALSE, the mark texts are placed at the angle of 45 degrees. The default value is TRUE.

This advanced option is model-specific and the setting is saved in the options database.

Example In the following example, the advanced option is set to TRUE.

In the following example, the advanced option is set to FALSE.
XS_DO_NOT_EXTEND_DIMENSION_LINES_THROUGH_ALL HOLES

Category  Dimensioning: Bolts

Set this advanced option to TRUE (default) to prevent dimension lines from extending through all holes in a bolt group. If you wish to extend the dimension lines, set this advanced option to FALSE.

This advanced option is model-specific and the setting is saved in the options database.

XS_DO_NOT_PLOT_DIMENSION_POINT_CIRCLES

Category  Dimensioning: General

Set to TRUE to prevent Tekla Structures from printing red dimension point invalidity symbols when you print from the drawing list. Dimension point invalidity symbols are always printed if you have a drawing open. The default value is FALSE.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

XS_DO_NOT_OVERWRITE_PLUGIN_INP_FILE

Category  This advanced option can be set in initialization files.

With standard settings Tekla Structures overwrites the step profile settings and replaces them with the default values every time when Tekla Structures is started. To prevent Tekla Structures from losing the step profile settings, set the advanced option XS_DO_NOT_OVERWRITE_PLUGIN_INP_FILE to TRUE in the teklastructures.ini file.

If you are using catalog step profiles and have set XS_DO_NOT_OVERWRITE_PLUGIN_INP_FILE to TRUE and you update Tekla Structures, do the following:

1. Set XS_DO_NOT_OVERWRITE_PLUGIN_INP_FILE to FALSE in teklastructures.ini file.
2. Update Tekla Structures.
4. Set XS_DO_NOT_OVERWRITE_PLUGIN_INP_FILE to TRUE in teklastructures.ini file.
5. Run Steps.exe.

See also

Alphabetical list of advanced options 110 D
**Dimensioning: Parts**

When you use absolute dimensions, Tekla Structures removes the last absolute vertical dimension. To prevent this, set this advanced option to **TRUE** (default). If you do not want to do this, set this advanced option to **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Example of appearance in drawings</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRUE</td>
<td><img src="image1" alt="Example of TRUE setting" /></td>
</tr>
<tr>
<td>FALSE</td>
<td><img src="image2" alt="Example of FALSE setting" /></td>
</tr>
</tbody>
</table>
**XS_DO_NOT_USE_FOLDED_GUSSET_PLATE**

This advanced option can be set in initialization files.

Set this advanced option to **TRUE** to use part-adds to create bent plates in gusset connections. If you set it to **FALSE**, Tekla Structures creates bent gusset plates using the *Polybeam* command instead of the *Part-add* command.

**XS_DO_NOT_USE_GLOBAL_PLATE_SIDE**

**Category** Components

By default, connections 141, 146, 147, 149, 181, 184, 185, 186 and 187 create all shear tabs on the same side of the main part if the main part has several connections (global positioning). Set this advanced option to **TRUE** to position each shear tab according to which end of the main part the connection that creates it is closest to (local positioning). The default value is **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DONT_SHOW_POLYBEAM_MID_EDGES**

**Category** Drawing Properties

Set this advanced option to **TRUE** to hide polybeam fold and bend lines in drawings. If set to **FALSE** (default), the fold and bend lines are shown.

This advanced option is user-specific and the setting is saved in *options.bin* under user folder. Restart Tekla Structures to activate the new value.
<table>
<thead>
<tr>
<th>Advanced option is set to</th>
<th>Example</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRUE</td>
<td><img src="image1.png" alt="Example Image" /></td>
<td>Polybeam fold and bend lines are not shown in the handrail.</td>
</tr>
<tr>
<td>FALSE</td>
<td><img src="image2.png" alt="Example Image" /></td>
<td>Polybeam fold and bend lines are shown in the handrail.</td>
</tr>
</tbody>
</table>

**XS_DRAW_ALL_SECTION_EDGES_IN_DRAWINGS**

**Category**  Drawing Properties
Set this advanced option to **TRUE** to draw the edges of a cut part in the drawing and to **FALSE** to leave the edges open. The default value is **TRUE**.

This advanced option is model-specific and the setting is saved in the options database.

**See also**  
[XS_SECTION_LINE_COLOR on page 262](#)

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**XS_DRAW_ANGLE_AND_RADIUS_INFO_IN_UNFOLDING**

**Category** Dimensioning: Unfolding

Set this advanced option to **TRUE** to show the angle and radius information on the dimension line. The default for this advanced option is that the information is shown. To hide this information, set it to **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.

**See also**

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**XS_DRAW_BENDING_LINE_DIMENSIONS_IN_UNFOLDING**

**Category** Dimensioning: Unfolding

Set this advanced option to **TRUE** to create bending line dimensions in a drawing. If you do not want to create these dimensions, set this advanced option to **FALSE**. The default value is **TRUE**.

This advanced option is model-specific and the setting is saved in the options database.

**See also**

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**XS_DRAW_BOLT_HIDDEN_LINES**

**Category** Drawing properties

Use the following advanced options to show or hide bolts that are hidden from view by other parts, in single part, assembly, and general arrangement drawings. The default values are shown here:

- **XS_DRAW_BOLT_HIDDEN_LINES_IN_SINGLE_DRAWINGS=AS_PART**
- **XS_DRAW_BOLT_HIDDEN_LINES_IN_ASSEMBLY_DRAWINGS=AS_PART**
- **XS_DRAW_BOLT_HIDDEN_LINES_IN_GA_DRAWINGS=FALSE**

Possible values are:

- **AS_PART**: uses part’s hidden line visibility settings.
- **TRUE**: always shows hidden bolts.

**Alphabetical list of advanced options**
FALSE: does not show hidden bolts.

Tekla Structures sets the way the bolt hidden lines are shown when the bolt is added to a drawing, usually when you create the drawing or a drawing view. The hidden lines setting of the bolts cannot be changed afterwards.

One way to change the setting in an old drawing is to create a new drawing view using the desired bolt hidden lines settings.

Example

The following examples show how these advanced options can be used together with drawing property settings.

<table>
<thead>
<tr>
<th>To</th>
<th>Do this</th>
</tr>
</thead>
</table>
| Set the hidden lines to be always invisible in assembly drawings | 1. In the **Assembly Drawing Properties** dialog box, click **Bolts...**  
2. On the **Content** tab, select **solid** from the **Solid/Symbol** list.  
3. Click **OK**.  
4. Click **Tools --> Options --> Advanced Options... --> Drawing Properties**, and set **XS_DRAW_BOLT_HIDDEN_LINES_IN_ASSEMBLY_DRAWINGS** to **FALSE**.  
5. Create the drawing. |
| Set the hidden lines to be visible as the assembly drawing part properties allow | 1. In the **Assembly Drawing Properties** dialog box, click **Bolts...**  
2. On the **Content** tab, select **solid** from the **Solid/Symbol** list.  
3. Click **OK**.  
4. Click **Part...** in the drawing properties dialog box.  
5. On the **Content** tab, remove the check mark from the **Hidden line on/off** check box.  
6. Click **Tools --> Options --> Advanced Options... --> Drawing Properties**, and set **XS_DRAW_BOLT_HIDDEN_LINES_IN_ASSEMBLY_DRAWINGS** to **AS_PART**.  
7. Create the drawing. |

See also  **XS_DRAW_BOLT_OWN_HIDDEN_LINES** on page 117
XS_DRAW_BOLT_HIDDEN_LINES_IN_ASSEMBLY_DRAWINGS

Category Drawing Properties

Use this advanced option to show or hide bolts that are hidden from view by other parts in assembly drawings.

The possible values are:

- **AS_PART**: uses part's hidden line visibility settings.
- **TRUE**: always shows hidden bolts.
- **FALSE**: does not show hidden bolts.

The default value is **AS_PART**.

This setting only affects bolts with solid or exact solid representation. Bolts with symbol representation are always visible. Changing the advanced option does not affect existing drawings, but you need to recreate them.

This advanced option is role-specific. When the type **SYSTEM(ROLE)** is in use, the default value is used. When the type **MODEL(ROLE)** or **DRAWING(ROLE)** is in use, you can change the value, which is then the same for all users in the current model.

See also XS_DRAW_BOLT_HIDDEN_LINES on page 114.

XS_DRAW_BOLT_HIDDEN_LINES_IN_GA_DRAWINGS

Category Drawing Properties

Use this advanced option to show or hide bolts that are hidden from view by other parts in general arrangement drawings.

The possible values are:

- **AS_PART**: uses part's hidden line visibility settings.
- **TRUE**: always shows hidden bolts.
- **FALSE**: does not show hidden bolts.

The default value is **FALSE**.

This setting only affects bolts with solid or exact solid representation. Bolts with symbol representation are always visible. Changing the advanced option does not affect existing drawings, but you need to recreate them.

This advanced option is role-specific. When the type **SYSTEM(ROLE)** is in use, the default value is used. When the type **MODEL(ROLE)** or **DRAWING(ROLE)** is in use, you can change the value, which is then the same for all users in the current model.
See also: XS_DRAW_BOLT_HIDDEN_LINES on page 114.

**XS_DRAW_BOLT_HIDDEN_LINES_IN_SINGLE_DRAWINGS**

**Category** Drawing Properties

Use this advanced option to show or hide bolts that are hidden from view by other parts in single part drawings.

The possible values are:

- **AS_PART**: uses part’s hidden line visibility settings.
- **TRUE**: always shows hidden bolts.
- **FALSE**: does not show hidden bolts.

The default value is **AS_PART**.

This setting only affects bolts with solid or exact solid representation. Bolts with symbol representation are always visible. Changing the advanced option does not affect existing drawings, but you need to recreate them.

This advanced option is model-specific and the setting is saved in the options database.

See also: XS_DRAW_BOLT_HIDDEN_LINES on page 114.

**XS_DRAW_BOLT_OWN_HIDDEN_LINES**

**Category** Drawing properties

Use the following advanced options show or hide own hidden lines in bolts in single part, assembly, and general arrangement drawings. The own hidden lines are the lines of the object representation covered up by the object itself.

The default values are shown here:

- **XS_DRAW_BOLT_OWN_HIDDEN_LINES_IN_SINGLE_DRAWINGS=AS_PART**
- **XS_DRAW_BOLT_OWN_HIDDEN_LINES_IN_ASSEMBLY_DRAWINGS=AS_PART**
- **XS_DRAW_BOLT_OWN_HIDDEN_LINES_IN_GA_DRAWINGS=FALSE**

Possible values are:

- **AS_PART**: used the visibility settings of the part’s own hidden lines.
- **TRUE**: always shows bolts’ hidden lines.
- **FALSE**: does not show bolts’ hidden lines.
See also **XS_DRAW_BOLT_HIDDEN_LINES on page 114**

**XS_DRAW_BOLT_OWN_HIDDEN_LINES_IN_ASSEMBLY_DRAWINGS**

**Category** Drawing Properties

To show or hide the hidden lines of the bolts based on the own hidden line settings of the part that hides the bolts, enter `AS_PART`. To always show hidden lines of the hidden bolts, enter `TRUE`. To never show the hidden lines, enter `FALSE`. The default value is `AS_PART`.

This advanced option is role-specific. When the type `SYSTEM(ROLE)` is in use, the default value is used. When the type `MODEL(ROLE)` or `DRAWING(ROLE)` is in use, you can change the value, which is then the same for all users in the current model.

See also **XS_DRAW_BOLT_OWN_HIDDEN_LINES on page 117**

**XS_DRAW_BOLT_OWN_HIDDEN_LINES_IN_GA_DRAWINGS**

**Category** Drawing Properties

To show or hide the hidden lines of the bolts based on the own hidden line settings of the part that hides the bolts, enter `AS_PART`. To always show hidden lines of the hidden bolts, enter `TRUE`. To never show hidden lines of the hidden bolts, enter `FALSE`. The default value is `FALSE`.

This setting only affects bolts with solid or exact solid representation. Bolts with symbol representation are always visible. Changing the advanced option does not affect existing drawings, but you need to recreate them.

This advanced option is role-specific. When the type `SYSTEM(ROLE)` is in use, the default value is used. When the type `MODEL(ROLE)` or `DRAWING(ROLE)` is in use, you can change the value, which is then the same for all users in the current model.

See also **XS_DRAW_BOLT_OWN_HIDDEN_LINES on page 117**

**XS_DRAW_BOLT_OWN_HIDDEN_LINES_IN_SINGLE_DRAWINGS**

**Category** Drawing Properties

To show or hide the hidden lines of the bolts based on the own hidden line settings of the part that hides the bolts, enter `AS_PART`. To always show hidden lines of the hidden bolts, enter `TRUE`. To never show hidden lines of the hidden bolts, enter `FALSE`. The default value is `AS_PART`.

Alphabetical list of advanced options

118  D
This setting only affects bolts with solid or exact solid representation. Bolts with symbol representation are always visible. Changing the advanced option does not affect existing drawings, but you need to recreate them.

This advanced option is model-specific and the setting is saved in the options database.

See also  
XS_DRAW_BOLT_OWN_HIDDEN_LINES on page 117

**XS_DRAW_BOLTS_PERPENDICULAR_TO_PART_IN_SINGLE_DRAWINGS**

**Category**  
Dimensioning: Bolts

Set this advanced option to **TRUE** to draw bolts perpendicular to the part plane in single part drawings. If you do not want to do this, set it to **FALSE**. This only applies to bolt symbol types **symbol** and **symbol3**.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DRAW_BOLTS_THROUGH_NEIGHBOUR_PARTS**

**Category**  
Drawing Properties

Set this advanced option to **TRUE** to draw the bolt parts that coincide with neighboring parts. If you do not want to draw these bolt parts, set it to **FALSE**. The default value is **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.

The following example shows how the drawing looks like when you set this advanced option to **FALSE**.
In the following example, the advanced option is set to \texttt{TRUE}.
**XS_DRAW_CAST_PHASE_INTERNAL_LINES**

**Category**  Concrete detailing

Use to show or hide edge lines of (precast) concrete cast units in drawings. Set to **TRUE** (default) to show overlapping edge lines between adjacent cast units.

If you are working with cast-in-place concrete parts and **XS_ENABLE_POUR_MANAGEMENT is set to TRUE**, the advanced options **XS_DRAW_CAST_UNIT_INTERNAL_LINES** and **XS_DRAW_CAST_PHASE_INTERNAL_LINES** do not have an effect.

If **XS_ENABLE_POUR_MANAGEMENT is set to FALSE**, both cast-in-place and precast concrete parts are treated in the same way and are affected by the...
advanced options XS_DRAW_CAST_UNIT_INTERNAL_LINES and XS_DRAW_CAST_PHASE_INTERNAL_LINES.

This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.

See also XS_DRAW_CAST_UNIT_INTERNAL_LINES on page 122

**XS_DRAW_CAST_UNIT_INTERNAL_LINES**

Category Concrete Detailing

Use to show or hide concrete part lines inside (precast) cast units in drawings. Set to TRUE to show overlapping part lines inside cast units.

The default value is FALSE.

If you are working with cast-in-place concrete parts and XS_ENABLE_POUR_MANAGEMENT is set to TRUE, the advanced options XS_DRAW_CAST_UNIT_INTERNAL_LINES and XS_DRAW_CAST_PHASE_INTERNAL_LINES do not have an effect.

If XS_ENABLE_POUR_MANAGEMENT is set to FALSE, both cast-in-place and precast concrete parts are treated in the same way and are affected by the advanced options XS_DRAW_CAST_UNIT_INTERNAL_LINES and XS_DRAW_CAST_PHASE_INTERNAL_LINES.

This advanced option is model-specific and the setting is saved in the options database.

See also XS_DRAW_CAST_PHASE_INTERNAL_LINES on page 121

**XS_DRAW_CHAMFERS_HANDLES**

Category Model view

Use to define whether to show the handles or the chamfers for contour plates, concrete slabs, and polybeams. The options are:
- **HANDLES**: handles are shown. Makes the selection of handles easier. This is the default value.

- **CHAMFERS**: chamfers are shown. Use this option, for example, when you want to check the status of polybeam chamfers.

- **CHAMFERS_AND_HANDLES** shows both the chamfers and handles.

**See also**

**XS_DRAW_CROSS_AXIS**

**Category**  Drawing properties

Set to N to have Tekla Structures hide the axis cross in beam cross sections.

Leave the value out to display the axis cross in beam cross sections.

This advanced option is model-specific and the setting is saved in the options database.
**XS_DRAW_CUT_FACES_WITH_RED_COLOR**

**Category** Model View

Set to `TRUE` (default) to have cut faces shown in red color and to `FALSE` to show the cut faces with the same color as other faces.

You do not need to restart Tekla Structures for the change to take effect. However, you do need to, for example, modify the parts, or delete the parts and then undo the delete command, so that they are redrawn.

This advanced option is user-specific and the setting is saved in `options.bin` under user folder. Restart Tekla Structures to activate the new value.

**XS_DRAW_HORIZONTAL_VIEW_SHORTENING_SYMBOLS_TO_PARTS**

**Category** Drawing Properties

Set to `TRUE` to show horizontal view shortening symbols automatically. The default value is `FALSE`.

This advanced option is role-specific. When the type `SYSTEM(ROLE)` is in use, the default value is used. When the type `MODEL(ROLE)` or `DRAWING(ROLE)` is in use, you can change the value, which is then the same for all users in the current model.

**Limitations**
- Shortening symbols are not shown in general arrangement drawings.
- Shortening symbols are not shown in rectangular hollow sections or channel sections.

**See also** [XS_DRAW_VERTICAL_VIEW_SHORTENING_SYMBOLS_TO_PARTS on page 126](#)

**XS_DRAW_INSIDE_ANGLE_IN_UNFOLDING**

**Category** Dimensioning: Unfolding

Set this advanced option to `TRUE` to display the interior angle instead of the exterior angle in angle text. If set this advanced option to `FALSE` (default), the exterior angle is displayed.

This advanced option is model-specific and the setting is saved in the options database.

**See also**

**XS_DRAW_LONG_HOLE_DIMENSIONS**

**Category** Dimensioning: Bolts
Set this advanced option to TRUE to dimension slotted holes to the center points of the curve. If you set this advanced option to FALSE (default), the slotted holes are dimensioned to the center points of the holes.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DRAW_MESH_OUTLINE_SYMBOL_FROM_BOTTOM_LEFT_TO_TOP_RIGHT**

**Category**: Concrete Detailing

Use to define the outline representation of reinforcement meshes in drawings. When you set this advanced option to TRUE (default), the outline representation symbol of the mesh is always from bottom left to top right.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DRAW_ROOT_OPENING_EVEN_WHEN_ZERO**

**Category**: Welds

Set this advanced option to TRUE to show zero root openings. The default is TRUE. If you set this advanced option to FALSE, the zero root openings are not shown.

This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.

**XS_DRAW_SHORT_LEADER_LINES_OF_PART_MARKS**

**Category**: Marking: Parts

Use this advanced option to define if a leader line is drawn when the leader line is shorter than defined with the advanced option XS_DRAW_SHORT_LEADER_LINES_OF_PART_MARKS_MINIMUM_LENGTH. When you set this option to FALSE, the leader line is not drawn. Set to TRUE (default) to always draw leader lines in part marks.

This advanced option is model-specific and the setting is saved in the options database.

**See also**: XS_DRAW_SHORT_LEADER_LINES_OF_PART_MARKS_MINIMUM_LENGTH on page 125

**XS_DRAW_SHORT_LEADER_LINES_OF_PART_MARKS_MINIMUM_LENGTH**

**Category**: Marking: Parts
Use this advanced option to define the minimum length of a leader line that Tekla Structures
draws. If the leader line is shorter that the minimum length and the advanced option
XS_DRAW_SHORT_LEADER_LINES_OF_PART_MARKS is set to FALSE, the leader
line is not drawn. The default value is 0.0. If the advanced option
XS_DRAW_SHORT_LEADER_LINES_OF_PART_MARKS_MINIMUM_LENGTH is set to
TRUE, the part mark leader lines are always drawn.
This advanced option is model-specific and the setting is saved in the options database.

See also  XS_DRAW_SHORT_LEADER_LINES_OF_PART_MARKS on page 125

XS_DRAW_SKEWED_ELEVATIONS

Category  Dimensioning: Parts
Set this advanced option to TRUE to display skewed elevation dimensions.
If you set it to FALSE (default), skewed elevation dimensions are not displayed in drawings.
This advanced option is model-specific and the setting is saved in the options database.

See also

XS_DRAW_VERTICAL_VIEW_SHORTENING_SYMBOLS_TO_PARTS

Category  Drawing Properties
Set this advanced option to TRUE to show vertical view shortening symbols automatically.
The default value is FALSE.
This advanced option is role-specific. When the type **SYSTEM(ROLE)** is in use, the default value is used. When the type **MODEL(ROLE)** or **DRAWING(ROLE)** is in use, you can change the value, which is then the same for all users in the current model.

**Limitations**
- Shortening symbols are not shown in general arrangement drawings.
- Shortening symbols are not shown in rectangular hollow sections or channel sections.

**See also** [XS_DRAW_HORIZONTAL_VIEW_SHORTENING_SYMBOLS_TO_PARTS on page 124](#)

**XS_DRAWING_ALLOW_NEW_SECTIONS_IN_REDIMENSIONING**

**Category** Drawing Properties

Use to define whether new views or sections are created during redimensioning of existing drawings. The default is **FALSE**, which means that no views or sections are created.

This advanced option is role-specific. When the type **SYSTEM(ROLE)** is in use, the default value is used. When the type **MODEL(ROLE)** or **DRAWING(ROLE)** is in use, you can change the value, which is then the same for all users in the current model.

**XS_DRAWING_ALLOW_SNAPPING_TO_DISTANT_POINTS**

**Category** Drawing Properties

Set this advanced option to **TRUE** to allow the cursor to snap to object end points in a drawing even if the cursor is not near the end point. This means that if the cursor is anywhere on the object, the cursor will snap to the object end points. If you do not want to allow this, set this advanced option to **FALSE**. Then the cursor will snap only to the snap points near the cursor.
The default value is FALSE.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

See also

**XS_DRAWING_ASSEMBLY_HATCH_SCHEMA**

**Category** Hatching
Use to indicate the name of the schema file to use for assembly drawings.

**Example**
To use the default schema file, enter `assembly.htc`.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DRAWING_CAST_UNIT_HATCH_SCHEMA**

**Category** Hatching
Use to determine the name of the schema file used for cast unit drawings.

This advanced option is model-specific and the setting is saved in the options database.

**Example**
To use the default schema file, enter `cast_unit.htc`.

**XS_DRAWING_CHANGE_HIGHLIGHT_COLOR**

**Category** Drawing Properties
Use to change the highlight color of the automatic change symbols. The color options are RED, DARK RED, ORANGE, DARK YELLOW, GREEN, DARK GREEN, BLUE, DARK BLUE, BLACK, GREY, DARK GREY, CYAN, DARK CYAN and MAGENTA. You can also enter colors as numerical values.

If you use the default color 190, the symbols are displayed on the screen but they will not appear in the printed drawings.

This advanced option is model-specific and the setting is saved in the options database.
### Example

<table>
<thead>
<tr>
<th>Set the advanced option to</th>
<th>Color on screen</th>
<th>Color in printed drawings</th>
</tr>
</thead>
<tbody>
<tr>
<td>190 (default)</td>
<td>![Color Icon]</td>
<td>not visible</td>
</tr>
<tr>
<td>MAGENTA</td>
<td>![Color Icon]</td>
<td>magenta</td>
</tr>
<tr>
<td>RED</td>
<td>![Color Icon]</td>
<td>red</td>
</tr>
<tr>
<td>GREEN</td>
<td>![Color Icon]</td>
<td>green</td>
</tr>
<tr>
<td>BLUE</td>
<td>![Color Icon]</td>
<td>blue</td>
</tr>
<tr>
<td>BLACK</td>
<td>![Color Icon]</td>
<td>black</td>
</tr>
<tr>
<td>GREY</td>
<td>![Color Icon]</td>
<td>grey</td>
</tr>
</tbody>
</table>

**Alphabetical list of advanced options**
**XS_DRAWING_CLONING_IGNORE_CHECK**

**Category** Drawing Properties

Set to **TRUE** to have Tekla Structures clone a drawing even though all the parts of the original drawing have been deleted and the position number is the same as in the original drawing. The default is **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.

**Example** You have drawing A[A.1] in your drawing list. You number the model so that the assembly A.1 changes to A.2. In the drawing list, the A[A.1] drawing is marked with an x and with the status message "All parts deleted." Then you number the model again, so that the assembly in the model changes from A.2 back to A.1. To clone, set the advanced option **XS_DRAWING_CLONING_IGNORE_CHECK** to **TRUE**, select the A[A.1] drawing (marked with x) from the drawing list and assembly A.1 from the model, and click **Clone**.

**XS_DRAWING_COMBINE_ADDED_DIMENSIONS**

**Category** Drawing Properties

Use to control whether added dimensions are merged to existing ones in updated or cloned drawings. If set to **FALSE**, added dimensions are not merged to existing ones. The default value is **TRUE**.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DRAWING_CUT_VIEW_COMPARISON_CRITERIA**

**Category** Drawing View

Use to specify the criteria used when comparing section views. If section views are different, they will be visible and will receive a unique section mark. By default, section views are compared based on the boundaries of the parts (EXTREMA) and the orientation of the parts in the view (ORIENTATION). The advanced option may contain a combination of the following options separated by a comma:

- **POSITION** compares position numbers of all the parts in the view (including non-dimensioned parts).
- **EXTREMA** compares the boundaries of the parts in the view.
- **ORIENTATION** compares the orientation of the parts in the view.
- **SHOWALL** considers all section views different and displays them with unique section marks.
• **EXACT** uses more rigid rules when comparing section views. Use in combination with the options **EXTREMA** or **ORIENTATION**.

This advanced option is role-specific. When the type **SYSTEM(ROLE)** is in use, the default value is used. When the type **MODEL(ROLE)** or **DRAWING(ROLE)** is in use, you can change the value, which is then the same for all users in the current model.

**See also** Setting automatic section view properties

**XS_DRAWING_FILTER_UDAS_WITHOUT_TYPE_CHECK**

**Category** Drawing Properties

Set this advanced option to **FALSE** (default) to use only user-defined attributes that have been defined for the object in the **object.inp** in drawing view filtering.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DRAWING_GA_HATCH_SCHEMA**

**Category** Hatching

Use to determine the name of the schema file used for general arrangement drawings.

This advanced option is model-specific and the setting is saved in the options database.

**Example** To use the default schema file, enter **general.htc**.

**XS_DRAWING_GRID_LABEL_FRAME_FIXED_WIDTH**

**Category** Drawing Properties

Use to specify a fixed size for the grid label frames. This is useful, for example, when you want all the grid label frames to be the same size no matter whether there are one or two digits in the frame. If you set this advanced option to zero (0), the width of the grid label frame depends on the width of the grid label. Enter the desired value in millimeters.

A fixed width of 18 is suggested for 5 characters (XXXX) when the text height is 3/16. Change the fixed width to 14 for 4 characters (XXX), 12 for 3 characters (XX), and to 10 for 2 characters (X). If you use a different text height than 3/16, fixed width values need to be adjusted accordingly. This advanced option overrides the automatic frame width calculation for grid labels.

If you do not set this advanced option, Tekla Structures adjusts the grid label frames to text within each frame.

Example of grid label frames when the frame size is not fixed:
Example of grid label frames when the frame size is fixed:

This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.

**XS_DRAWING_GRID_LABEL_FRAME_LINE_WIDTH_FACTOR**

**Category** Drawing Properties

Use to change the thickness of the grid label frame in drawings. You may want to emphasize the grid label frames so that they are shown with a thicker line than the rest of the grid.

**Example** XS_DRAWING_GRID_LABEL_FRAME_LINE_WIDTH_FACTOR=1
Each color has a certain line thickness. The thickness of the grid label frame on the printed black-and-white drawings depends on the color that has been defined for the grid label in the grid properties and on the value of this advanced option.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DRAWING_HISTORY_LOG_TYPE**

**Category** Drawing Properties

Use to define the contents of the drawing history log file `drawing_history.log`. You can use the following options individually or in any combination.

- **ALL**
- **NEW**
- **DELETED** (default)
- **MODIFIED**

**Example** Separate the options using the _ character, for example, NEW_DELETED.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DRAWING_IGNORE_ZERO_LEVELS_IN_PART_MARKS**

**Category** Marking: Parts

Use to control whether zero levels (+0.000) are shown or hidden in part marks. By default the advanced option is set to FALSE, so zero levels are shown in part marks. Set to TRUE to hide the zero levels in part marks.

For example, you can use this advanced option for hiding connection side marks at the specified distance from the view plane.

To list level information in part marks, go to the Part mark properties dialog box and insert the element **User-defined attribute** and enter one of the following template attributes:

- **ASSEMBLY_BOTTOM_LEVEL**
- **ASSEMBLY_TOP_LEVEL**
- **CAST_UNIT_BOTTOM_LEVEL**
CAST_UNIT_TOP_LEVEL

This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.

See also

XS_DRAWING_PART_REFERENCE_LINE_TYPE

Category Drawing Properties

Use to set the reference line type in drawings. You can use the following switches:

- **POINT_LINE** creates a line between the part's creation points.
- **DEFINITION_LINE** creates a line between the part's definition points (creation points + end offsets).
- **CORNER_REFERENCE_LINE** creates a line between the part's corner points.

![Diagram of POINT_LINE, DEFINITION_LINE, and CORNER_REFERENCE_LINE]

This advanced option is model-specific and the setting is saved in the options database.

XS_DRAWING_PART_SYMBOL_REPRESENTATION_TYPE

Category Drawing Properties

Use this advanced option for adjusting the symbol representation of parts in drawings. Value 0 (default) means by reference line, and value 1 means by center line. This affects the part representation options Symbol and Symbol with partial profile in the part properties dialog box.

This advanced option is model-specific and the setting is saved in the options database.

See also
**XS_DRAWING_PLOT_FILE_DIRECTORY**

**Category**: Printing

Use this advanced option to define the folder where Tekla Structures creates the plot files, if the file name field is empty in the **Print Drawings** dialog box. By default, `.\PlotFiles` is used.

This advanced option overrides the folder defined in the **Printer Catalog**.

**XS_DRAWING_PLOT_FILE_NAME**

**Category**: This advanced option can be set in initialization files.

Use this advanced option to define print filenames for drawings, if the filename is missing from the **Print Drawings** dialog box. This advanced option is used instead, if you have not entered a value for some of the following advanced options: `XS_DRAWING_PLOT_FILE_NAME_A`, `XS_DRAWING_PLOT_FILE_NAME_C`, `XS_DRAWING_PLOT_FILE_NAME_G`, `XS_DRAWING_PLOT_FILE_NAME_N`, or `XS_DRAWING_PLOT_FILE_NAME_M`.

Enter any combination of text and options: NAME, NAME., NAME, DRAWING_NAME, DRAWING_NAME., DRAWING_NAME., DRAWING_NAME., DRAWING_NAME., REVISION, DRAWING_REVISION, REV_MARK, REVISION_MARK, DRAWING_REVISION_MARK, REV, TITLE, DRAWING_TITLE, UDA:<drawing user-defined attribute>, TPL:<template attribute>, and REV?- <text> (if REV exists).

This advanced option is model-specific and the setting is saved in the options database.

**Example**

`XS_DRAWING_PLOT_FILE_NAME=%NAME.% - %TITLE% %UDA:DRAWING_USERFIELD_1? - %UDA:DRAWING_USERFIELD_1% %DRAWING_REVISION? - Rev%DRAWING_REVISION%.dxf`

**See also**

**XS_DRAWING_PLOT_FILE_NAME_A**

**Category**: Printing

Use to define print filenames for assembly drawings. Enter any combination of text and options: Enter any combination of text and options: NAME, NAME., NAME, DRAWING_NAME, DRAWING_NAME., DRAWING_NAME., DRAWING_NAME., DRAWING_NAME., REVISION, DRAWING_REVISION, REV_MARK, REVISION_MARK, DRAWING_REVISION_MARK, DRAWING_REVISION_MARK,
This advanced option is role-specific. When the type `SYSTEM(ROLE)` is in use, the default value is used. When the type `MODEL(ROLE)` or `DRAWING(ROLE)` is in use, you can change the value, which is then the same for all users in the current model.

**Example**

```
%DRAWING_NAME.% - %DRAWING_TITLE%%DRAWING_REVISION? - Rev %
%REVISION_MARK%
%NAME.% - %TITLE%%UDA:DRAWING_USERFIELD_1? - %
%UDA:DRAWING_USERFIELD_1%%DRAWING_REVISION? - Rev%
%DRAWING_REVISION%.dxf
```

See also

**XS_DRAWING_PLOT_FILE_NAME_W**

**Category** Printing

Use to define print filenames for single part drawings. Enter any combination of text and options: `NAME`, `NAME.-`, `NAME.`, `DRAWING_NAME`, `DRAWING_NAME.`, `DRAWING_NAME.-`, `REVISION`, `DRAWING_REVISION`, `REV_MARK`, `REVISION_MARK`, `DRAWING_REVISION_MARK`, `REV`, `TITLE`, `DRAWING_TITLE`, `UDA:<drawing user-defined attribute>`, `TPL:<template attribute>`, and `REV?- <text> (if REV exists).

This advanced option is role-specific. When the type `SYSTEM(ROLE)` is in use, the default value is used. When the type `MODEL(ROLE)` or `DRAWING(ROLE)` is in use, you can change the value, which is then the same for all users in the current model.

**Example**

```
%DRAWING_NAME.% - %DRAWING_TITLE%%DRAWING_REVISION? - Rev %
%REVISION_MARK%
XS_DRAWING_PLOT_FILE_NAME_W = %NAME% - %TITLE%
%UDA:DRAWING_USERFIELD_1? - %%UDA:DRAWING_USERFIELD_1%
%DRAWING_REVISION? - Rev%%DRAWING_REVISION%.dxf
```

See also

**XS_DRAWING_PLOT_FILE_NAME_G**

**Category** Printing

Use to define print filenames for general arrangement drawings. Enter any combination of text and options: `NAME`, `NAME.-`, `NAME.`, `DRAWING_NAME`, `DRAWING_NAME.`, `DRAWING_NAME.-`, `REVISION`, `DRAWING_REVISION`, `REV_MARK`, `REVISION_MARK`, `DRAWING_REVISION_MARK`, `REV`, `TITLE`, `DRAWING_TITLE`, `UDA:<drawing user-defined attribute>`, `TPL:<template attribute>`, and `REV?- <text> (if REV exists).

This advanced option is role-specific. When the type `SYSTEM(ROLE)` is in use, the default value is used. When the type `MODEL(ROLE)` or `DRAWING(ROLE)` is in use, you can change the value, which is then the same for all users in the current model.
UDA:<drawing user-defined attribute>, TPL:<template attribute>, and REV?- <text> (if REV exists).

This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.

**Example**

```
%DRAWING_NAME.% - %DRAWING_TITLE%%DRAWING_REVISION? - Rev %
%REVISION_MARK%
%NAME.% - %TITLE%UDA:DRAWING_USERFIELD_1? - %
%UDA:DRAWING_USERFIELD_1%%DRAWING_REVISION? - Rev%
%DRAWING_REVISION%.dxf
```

See also

**XS_DRAWING_PLOT_FILE_NAME_M**

**Category** Printing

Use to define print filenames for multidrawings. Enter any combination of text and options: NAME, NAME.-, NAME., DRAWING_NAME, DRAWING_NAME., DRAWING_NAME.-, REVISION, DRAWING_REVISION, REV MARK, REVISION MARK, DRAWING_REVISION MARK, REV, TITLE, DRAWING_TITLE, UDA:<drawing user-defined attribute>, TPL:<template attribute>, and REV?- <text> (if REV exists).

This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.

**Example**

```
%DRAWING_TITLE%%DRAWING_REVISION? - Rev %REVISION_MARK%
XS_DRAWING_PLOT_FILE_NAME_M = %NAME.% - %TITLE%
%UDA:DRAWING_USERFIELD_1? - %UDA:DRAWING_USERFIELD_1%
%DRAWING_REVISION? - Rev%DRAWING_REVISION%.dxf
```

See also

**XS_DRAWING_PLOT_FILE_NAME_C**

**Category** Printing

Use to define print filenames for cast unit drawings. Enter any combination of text and options: NAME, NAME.-, NAME., DRAWING_NAME, DRAWING_NAME., DRAWING_NAME.-, REVISION, DRAWING_REVISION, REV MARK, REVISION MARK, DRAWING_REVISION MARK, REV, TITLE, DRAWING_TITLE,
UDA:<drawing user-defined attribute>, TPL:<template attribute>, and REV?- <text> (if REV exists).

This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.

Example  
%DRAWING_NAME.% - %DRAWING_TITLE% %DRAWING_REVISION? - Rev %REVISION_MARK%
%NAME.% - %TITLE% %UDA:DRAWING_USERFIELD_1? - %
%UDA:DRAWING_USERFIELD_1% %DRAWING_REVISION? - Rev %DRAWING_REVISION%.dxf

See also

**XS_DRAWING_POINT_SCALE**

**Category**  
Drawing Properties

Use to scale the points Tekla Structures uses to create reference lines. Enter the scale as a decimal. The default value is 0.5.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DRAWING_SCALE_SEPARATOR_CHAR**

**Category**  
Drawing Properties

Defines the separator character used in drawing scales. The default character is colon (:).

This advanced option is model-specific and the setting is saved in the options database.

**XS_DRAWING_SHEET_HEIGHT**

**Category**  
Drawing View

Use to define the default height of a drawing sheet. The default value is 800.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

See also  
**XS_DRAWING_SHEET_POSITION_X** on page 138
**XS_DRAWING_SHEET_POSITION_X**

**Category** Drawing View

Use to define the initial position of the drawing sheet. This is useful when using a dual display. The default value is 0.

You can set this in the following ways:

```
XS_DRAWING_SHEET_POSITION_X=50
XS_DRAWING_SHEET_POSITION_Y=50
XS_DRAWING_SHEET_HEIGHT=600
XS_DRAWING_SHEET_WIDTH=900
```

X and Y are the coordinates of the upper left corner of the drawing view, measured from the upper left corner of the MDI client window (the dark gray area in the Tekla Structures window).

This advanced option is user-specific and the setting is saved in `options.bin` under user folder. Restart Tekla Structures to activate the new value.

**See also**  
XS_DRAWING_SHEET_POSITION_Y on page 139  
XS_DRAWING_SHEET_HEIGHT on page 138  
XS_DRAWING_SHEET_WIDTH on page 139

---

**XS_DRAWING_SHEET_POSITION_Y**

**Category** Drawing View

Use to define the initial position of the drawing sheet. This is useful when using a dual display. The default value is 0.

You can set this in the following ways:

```
XS_DRAWING_SHEET_POSITION_X=50
XS_DRAWING_SHEET_POSITION_Y=50
XS_DRAWING_SHEET_HEIGHT=600
XS_DRAWING_SHEET_WIDTH=900
```

X and Y are the coordinates of the upper left corner of the drawing view, measured from the upper left corner of the MDI client window (the dark gray area in the Tekla Structures window).

This advanced option is user-specific and the setting is saved in `options.bin` under user folder. Restart Tekla Structures to activate the new value.

**See also**  
XS_DRAWING_SHEET_POSITION_X on page 138  
XS_DRAWING_SHEET_HEIGHT on page 138  
XS_DRAWING_SHEET_WIDTH on page 139
XS_DRAWING_SHEET_WIDTH

Category Drawing view

Use to define the default width of a drawing sheet. The default value is 1000.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

See also XS_DRAWING_SHEET_POSITION_X on page 138
XS_DRAWING_SHEET_POSITION_Y on page 139
XS_DRAWING_SHEET_HEIGHT on page 138

XS_DRAWING_SINGLE_PART_HATCH_SCHEMA

Category Hatching

Use to determine the name of the schema file used for single part drawings.

This advanced option is model-specific and the setting is saved in the options database.

Example To use the default schema file, enter single.htc.

XS_DRAWING_SNAPSHOT_CREATION

Category Drawing Properties

If you set the this advanced option to FALSE, the snapshots are not created automatically when you save a drawing, and you are no longer asked to select if you want to create the snapshots when you close a drawing that you have changed. The default value is TRUE, which means that snapshots are created automatically when you save a drawing, and you will be asked to select if you want to create a snapshot when you close a drawing that you have changed.

This advanced option is model-specific and the setting is saved in the options database.

XS_DRAWING_SOLID_MERGE_TOLERANCE

Category Drawing View
Use to define the limit that determines whether some objects in a cast unit are merged in the drawing view. Enter the value in millimeters. The default value is 6.0.

This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.

**Example**  
The following example shows the result of merging parts.

In the following example, unnecessary segments of curved parts that are one above another are removed.
XS_DRAWING_STUD_REPRESENTATION

Category

Drawing Properties

Use this advanced option to define different representation options for bolts and studs.

Set the advanced option to **SOLID** (default) to have the studs drawn as solid objects regardless of the bolt representation setting, and to **AS_BOLT** to have the studs drawn according to the settings in the **Bolt properties** dialog box.

This advanced option is role-specific. When you change the value, it changes from system- to model-specific, and its value is the same for all users in the current model.
XS_DRAWINGTEMPLATES_LIBRARY

Category Drawing Properties

This advanced option has been removed.

You define the location of the drawing template library by setting this advanced option to point to the model folder that contains the template drawings.

This advanced option is model-specific and the setting is saved in the options database.

Example C:\TeklaStructuresModels\CloningTemplate

(where CloningTemplate is the model name).

To use the cloning template library and the cloning template:

1. Open the user.ini file located in the folder ..\Tekla Structures \<version>\nt\bin in a text editor, for example Microsoft Notepad.

2. Set the advanced option XS_DRAWINGTEMPLATES_LIBRARY to point to the model folder that contains the cloning templates (template library):

   set XS_DRAWINGTEMPLATES_LIBRARY=%XS_RUNPATH%\DrawingLibrary

   For example:

   set XS_DRAWINGTEMPLATES_LIBRARY=C:\TeklaStructuresModels\CloningTemplate

   (where CloningTemplate is the model name).

3. To open the Clone Drawing dialog box, click Clone in the drawing list dialog box.

4. Use the Objects and actions in cloning options to define the drawing objects to be cloned and the actions for each cloned object.

5. Select the Clone from > Other model option. You can see that the CloningTemplate folder is displayed in the box.

6. Click the Select template... button.

7. In the Drawing Templates dialog box, select the cloning template.

8. Leave the list open and clone the drawing by clicking Clone selected.

XS_DRAWING_UDAS_MODIFY_ALL_DRAWING_TYPES

Category Drawing Properties

Use to modify the user-defined attributes of all selected drawings in the drawing list at the same time, even if the drawings are of different types.

- To allow the modification of user-defined attributes for all drawings types at the same time, set the advanced option to TRUE. TRUE is the default value.
• To allow the modification of user-defined attributes only for one drawing type at a time, set the advanced option to **FALSE**.

This advanced option is user-specific and the setting is saved in `options.bin` under user folder. Restart Tekla Structures to activate the new value.

**XS_DRAWING_UPDATE_VIEW_PLACING**

**Category**  
Drawing Properties

Use to control how the view placing works. If the views do not fit on the screen after scaling, Tekla Structures increases the sheet size using the layout properties if autosizing is enabled ([Layout --> Drawing size --> Size definition mode --> Autosize](#)). Use this advanced option together with **XS_INTELLIGENT_DRAWING_ALLOWED** on page 187.

This advanced option is model-specific and the setting is saved in the options database.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRUE</td>
<td>Updates the view placing. Does not affect the scale or the sheet size.</td>
</tr>
<tr>
<td>TRUE, SCALE</td>
<td>Updates the view placing and scales the view if the view does not fit on the sheet. Tekla Structures scales the views smaller using the scales in layout properties.</td>
</tr>
<tr>
<td>TRUE, SHEET</td>
<td>Updates the view and increases the sheet size if the view does not fit on the sheet.</td>
</tr>
<tr>
<td>TRUE, SHEET, SCALE</td>
<td>Updates the view, scales the view and increases the sheet size, if necessary.</td>
</tr>
<tr>
<td>TRUE, CLONING_ONLY</td>
<td>Updates the view placing. Does not affect the scale or the sheet size. View placing is updated only during cloning, not during update. CLONING_ONLY is the default value.</td>
</tr>
<tr>
<td>TRUE, SCALE, CLONING_ONLY</td>
<td>Updates the view placing and scales the view if the view does not fit on the sheet. Tekla Structures scales the views smaller using the scales in layout properties. View placing is updated only during cloning, not during update.</td>
</tr>
<tr>
<td>TRUE, SHEET, CLONING_ONLY</td>
<td>Updates the view placing and increases the sheet size if the view does not fit on the sheet. View placing is updated only during cloning, not during update.</td>
</tr>
<tr>
<td>TRUE, SHEET, SCALE, CLONING_ONLY</td>
<td>Updates the view placing, scales the view and increases the sheet size, if necessary. View placing is updated only during cloning, not during update.</td>
</tr>
<tr>
<td>FALSE</td>
<td>Does not update the view placing or change the view scale or sheet size.</td>
</tr>
</tbody>
</table>
**XS_DRAWING_USE_WORKSHOP_FORM_FOR_DOUBLE_PARTS_IN_SINGLE_PART_DRAWINGS**

**Category** Drawing Properties

Set this advanced option to **TRUE** to show haunch profiles always in workshop form as double parts in single part drawings. **TRUE** is the default value. To show the haunch profiles using the part representation selected in the part properties dialog box, set this advanced option to **FALSE**. This setting affects only part representation, not dimensioning or other part properties.

By default, a haunch (translations checked in `drawing.ail`) has different length calculations and uses different part presentation in drawings than a beam. The calculation routine checks the part name, and when the name "HAUNCH" or translations of it is found, the haunch calculation is used.

You can add additional names for haunch profiles in `drawing.ail` file under the `\messages` folder. Use the strings like `drawing_haunch_2` or `drawing_haunch_3`.

Below is an example of the workshop form representation.

Below is an example of the outline representation.
This advanced option is model-specific and the setting is saved in the options database.

**XS_DRAWING_VIEW_DIRECTION_MARK_SYMBOL_FRONT**

**Category** Drawing properties

Use the following advanced options to define the arrow symbol used in section and end view direction marks, for each basic view type (front, top, back, bottom):

- XS_DRAWING_VIEW_DIRECTION_MARK_SYMBOL_FRONT
- XS_DRAWING_VIEW_DIRECTION_MARK_SYMBOL_TOP
- XS_DRAWING_VIEW_DIRECTION_MARK_SYMBOL_BACK
- XS_DRAWING_VIEW_DIRECTION_MARK_SYMBOL_BOTTOM

By default Tekla Structures uses the symbol no 66 \( \triangle \) in the xsteel.sym file (located usually in the folder \( \text{environments\common\symbols} \)).

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

See also

**XS_DRAWING_VIEW_DIRECTION_MARK_SYMBOL_TOP**

**Category** Drawing properties

See **XS_DRAWING_VIEW_DIRECTION_MARK_SYMBOL_FRONT** on page 146.
**XS_DRAWING_VIEW_DIRECTION_MARK_SYMBOL_BACK**

*Category*  
Drawing Properties

See [XS_DRAWING_VIEW_DIRECTION_MARK_SYMBOL_FRONT on page 146](#).

**XS_DRAWING_VIEW_DIRECTION_MARK_SYMBOL_BOTTOM**

*Category*  
Drawing properties

See [XS_DRAWING_VIEW_DIRECTION_MARK_SYMBOL_FRONT on page 146](#).

**XS_DRAWING_VIEW_REFERENCE_SYMBOL**

*Category*  
Drawing Properties

Use to define the symbol that is displayed in drawing views, when you have selected the option *Custom* in the *Symbol* list in the *Detail* or *Section Symbol Properties* dialog box, or in the view properties dialog boxes of other drawing views. For example, if you enter `xsteel@3`, Tekla Structures uses the symbol number 3 in symbol file `xsteel.sym`.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DRIVER**

*Category*  
File Locations

The print device definitions you create in the Printer Catalog (File --&gt; Print... --&gt; Printer Catalog...) are located in the plotdev.bin file. This file is located in the folder `\environments\<your_environment>\system\`. The definitions in the system folder are accessible to all users. You can also save printer definitions in the current model folder or the project and firm folders, and in a folder indicated by this advanced option. Tekla Structures searches first for plotdev.bin in the model, project and firm folders, then the folder indicated by the advanced option *XS_DRIVER*.

This advanced option is system-specific and is read from environment files. Generally, there is no need to modify system-specific settings. Do not modify them if you are not an administrator.

See also
**XS_DSTV_CHANGE_AK_BLOCK_RADIUS_SIGN**

**Category** CNC

When set to **TRUE**, this advanced option changes the AK block curve radius signs for top and back faces. The default value is **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DSTV_CHANGE_IK_BLOCK_RADIUS_SIGN**

**Category** CNC

When set to **TRUE**, this advanced option changes the IK block curve radius signs for top and back faces. The default value is **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DSTV_CREATE_AK_BLOCK_FOR_ALL_PLATES**

**Category** CNC

Set to **TRUE** (default) to create AK blocks in DSTV files also for rectangular plates.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DSTV_CREATE_AK_BLOCK_FOR_ALL_PROFILES**

**Category** CNC

When you set the advanced option to **TRUE**, Tekla Structures creates AK blocks in DSTV files for all profiles. The default value is **TRUE**.

When you set the advanced option to **FALSE**, Tekla Structures checks whether an AK block needs to be created for the part, and creates the AK block when needed.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DSTV_CREATE_NOTCH_ONLY_ON_BEAM_CORNERS**

**Category** CNC

Use this advanced option to control the rounding of notch corners. The default is **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.
Examples  The following example describe the concepts of notches, notch corners, notch corner roundings, and beam corners:
1. The notch is at the beam corner
2. The notch is not at the beam corner
3. Three notches, other corners are ordinary corners
4. Notch corner inner shape (or notch corner rounding) options

The table below shows how the
**XS_DSTV_CREATE_NOTCH_ONLY_ON_BEAM_CORNERS** setting (TRUE/FALSE) and the **Inner corners shape** setting affect the NC file.

<table>
<thead>
<tr>
<th>XS_DSTV_CREATE_NOTCH_ONLY_ON_BEAM_CORNERS set to FALSE</th>
<th>XS_DSTV_CREATE_NOTCH_ONLY_ON_BEAM_CORNERS set to TRUE</th>
</tr>
</thead>
</table>

Alphabetical list of advanced options

150 D
**XS_DSTV_DO_NOT_UNFOLD_POLYBEAM_PLATES**

**Category** CNC

Set this advanced option to **TRUE** if you do not want to unfold polybeam plates when you create DSTV files. This means that the polybeam plates will be handled as "cut into shape" instead of "bent into shape" regardless of the modeling method. For this advanced option to work, the polybeam plate must lie in XY plane of the material.

If set this advanced option to **FALSE**, Tekla Structures writes the unfolded geometry of the polybeam plates to the DSTV files. The default value is **FALSE**.

This advanced option is user-specific and the setting is saved in `options.bin` under user folder. Restart Tekla Structures to activate the new value.

**XS_DSTV_LIST_SEPARATOR**

**Category** CNC
Use to define the separator used in DSTV lists. By default the separator is the # character. This advanced option is model-specific and the setting is saved in the options database.

**XS_DSTV_NET_LENGTH**

**Category** CNC

Set this advanced option to **TRUE** to make cuts affect the part length in the NC file header. Set this advanced option to **FALSE** to make only fittings affect the length.

Using this advanced option also affects MIS values, such as KISS and EJE.

This advanced option is model-specific and the setting is saved in the options database.

**For advanced users** The AK block of the NC file always contains the correct net length. Using this advanced option writes the net length, instead of the length, to the header block. Some NC machines take the length information either from the header or AK-block. Check with the workshop if you are uncertain which method to use.

Using this advanced option may damage cutting machines if the part contains cuts and fittings and the longest length is not at the edge of the part (machine tries to start cutting in the middle of the part):

![Diagram](image)

See also **XS_DSTV_PRINT_NET_AND_GROSS_LENGTH** on page 153

**XS_DSTV_NO_SAWINGANGLES_FOR_PLATES_NEEDED**

**Category** CNC

With this variable you can define whether you need to specify skew angles in NC file header or not for plates. **TRUE** does not write the skew angles in the file heading. If you want to specify skew angles, set this advanced option to **FALSE**. The default value is **TRUE**.

This advanced option is model-specific and the setting is saved in the options database.

See below for an example:
**XS_DSTV_NUMBER_OF_PARTS_BY_SELECTION**

**Category**  CNC

Use to add the number of parts in the header of an NC file by the parts that have been selected in the model.

When you set this advanced option to **TRUE**, and select the **Create for selected parts** option in the **NC Files** dialog box, the number of parts in the header of the NC file matches the number of selected parts.

The default value is **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DSTV_PLATE_PROFILE_WITH_WIDTH**

**Category**  CNC

Set this advanced option to **TRUE** to have both the plate thickness and the plate profile width written in the DSTV file header. Set this advanced option to **FALSE** to have only the plate thickness written in the DSTV file header. The default value is **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.
**XS_DSTV_PRINT_NET_AND_GROSS_LENGTH**

**Category** CNC

Set this advanced option to **TRUE** to insert two length values in NC DSTV files:

- Gross length
- Net length

If you do not want to do this, set this advanced option to **FALSE**. **FALSE** is the default value.

Net and gross length may switch places in the NC file if the advanced option **XS_CHECK_FLAT_LENGTH_ALSO** is set. Then Tekla Structures may use the length value it finds in the **fltprops.inp** file instead.

**See also**  
XS_DSTV_NET_LENGTH on page 152  
XS_CHECK_FLAT_LENGTH_ALSO on page 69

**XS_DSTV_REAL_WIDTH_INTO_HEADER_PROFILE_FOR_PLATES**

**Category** CNC

Set to **TRUE** to have the real plate width instead of the nominal plate width in the header information of DSTV files. The default is **FALSE**.

Here is an example of the difference between the real plate width and the nominal plate width: A user models a plate beam using the profile **PL200*10**, but then uses part or line cuts to create a 5 mm cut along the length of the plate, for example, to create a root opening for a weld, so that the end result is a plate which is only 195 mm wide. In this case, the real plate width would be 195 mm, and the nominal plate width 200 mm.

This advanced option is model-specific and the setting is saved in the options database.
XS_DSTV_USE_EQUAL_ACCURACY_FOR_PLATE_PROFILE_AND_WIDTH

Category  CNC
Set this advanced option to TRUE if you want the plate profile width value, plate width value in header and y coordinate values in AK and IK blocks to be rounded to the nearest millimeter. The default value is FALSE.

This advanced option is model-specific and the setting is saved in the options database.

XS_DSTV_USE_ONE_VERTEX_SHARP_INNER_CORNER

Category  CNC
Set this advanced option to TRUE if you do not need to add additional vertex points in the AK block of your DSTV file, for example, when you do not define the rounding radius in the NC settings. By default, this advanced option is set to FALSE, which means that additional vertex points are added.

This advanced option is model-specific and the setting is saved in the options database.

Example

Results in the following DSTV file when the advanced option is set to TRUE:

Results in the following DSTV file when the advanced option is set to FALSE.

XS_DSTV_USE_REAL_DIMENSIONS_IN_HEADER

Category  CNC
Set to TRUE to have bounding box values of the height and width written to the profile header data in the NC file. The default value is FALSE.

This advanced option is model-specific and the setting is saved in the options database.

See also

**XS_DSTV_WRITE_BEHIND_FACE_FOR_PLATE**

**Category** CNC

Set to TRUE to write (AK + IK) contours for front (v) and back (h) faces of plates in NC DSTV files. Set to FALSE to Tekla Structures only write the front face for plate profiles. The default value is FALSE.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**XS_DUPLICATE_CHECK_LIMIT_FOR_COPY_AND_MOVE**

**Category** Modeling Properties

Use to define the maximum number of objects that are checked for duplicates while copying or moving objects.

If the selection contains too many objects, Tekla Structures does not check for duplicates. Enter an integer value. The default value is 100.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

See also

**XS_DWG_IMPORT_IGNORE_UNITS**

**Category** This advanced option can be set in initialization files.

If a DWG reference file is created with imperial settings, it will import to Tekla Structures in too large scale. You can use this advanced option to prevent this.

If you want all coordinates to be meters, set this advanced option to TRUE. If you want to take the unit from the DWG file based on the measurement and $insunit definitions in the file header, leave the value out. By default, this advanced option is not set to any value.

**XS_DXF_FONT_CONVERSION_FILE**

**Category** Printing
Use this advanced option to specify a font conversion file for Tekla Structures drawings' DWG and DXF export and printing. The font conversion file defines which font file will be connected to the created AutoCAD style, and optional font width and height correction factors. You can use both True Type font files and AutoCAD .SHX font files.

If only the file name of the font conversion file is given, the file is read from the model folder. To use a font conversion file from another location, give the file name with relative or full path. If XS_DXF_FONT_CONVERSION_FILE is not set, Tekla Structures will try to use the default font conversion file (dxf_fonts.cnv) from the folder defined by DXK_FONTPATH. DXK_FONTPATH is defined in teklastructures.ini.

If the font conversion file is not found or if it does not contain a mapping for a certain font, the font name used in Tekla Structures is used to form the name of the text style in AutoCAD. Spaces are replaced with underscores and lowercase letters are replaced with uppercase ones. For example, font name Arial Narrow in Tekla Structures will become a style named ARIAL_NARROW in AutoCAD.

In addition to the font-specific width and height correction factors defined in the font conversion file, there are general variables XS_DXF_TEXT_HEIGHT_FACTOR and XS_DXF_TEXT_WIDTH_FACTOR, which apply to all exported texts regardless of the font. If both font specific factors and general variables are used, they are multiplied.

Syntax used in font mapping:

Font name in Tekla Structures = Font file name in AutoCAD [* width correction factor [* height correction factor]]

Examples of font mappings in a .cnv file:

Arial Narrow = ARIALN.TTF
Arial Narrow Bold Italic = ARIALNBI.TTF * 0.5 * 1.0

- The names in the font conversion file are case sensitive.
- The font conversion file is used for drawings in DWG and DXF export and printing only, it does not affect drawings DWG and DXF import or model import or export.

See also
- DXK_FONTPATH on page 158
- XS_DXF_TEXT_HEIGHT_FACTOR on page 158
- XS_DXF_TEXT_WIDTH_FACTOR on page 158

XS_DXF_FONT_NAME

Category Printing
Use to specify a font other than the default for 2D DXF files. By default, this advanced option is not set to any value.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DXF_TEXT_HEIGHT_FACTOR**

**Category** Printing

Use to set a scale factor for 2D DXF text height. Enter the factor as a decimal. The default value is 1.0.

This advanced option is model-specific and the setting is saved in the options database.

**XS_DXF_TEXT_WIDTH_FACTOR**

**Category** Printing

Use to set the scale factor for 2D-DXF text width. Enter the factor as a decimal. The default value is 1.0.

This advanced option is model-specific and the setting is saved in the options database.

**DXK_FONTPATH**

**Category** This advanced option can be set in initialization files.

This advanced option is system-specific and is read from teklastructures.ini. It can also be set locally, see your environment ini file (env_<environment_name>.ini).

Generally, there is no need to modify system-specific settings. Do not modify them if you are not an administrator.

Use to point to the folder containing Tekla Structures graphic fonts. The Template editor, for example, uses graphic fonts. DXK_FONTPATH is defined in teklastructures.ini.

Always end the path with the backslash character.

**Example** set DXK_FONTPATH=%XSDATADIR%\environments\common\fonts\%

**See also**

**DXK_SYMBOLPATH**

**Category** This advanced option can be set in initialization files.
This advanced option is system-specific and is read from tekslastructures.ini. It can also be set locally, see your environment ini file (env_<environment_name>.ini). Generally, there is no need to modify system-specific settings. Do not modify them if you are not an administrator.

This advanced option points to one or several folders containing Tekla Structures symbol libraries. These folders also contain the DWG files used in snap symbols and handles. The order of folders in DXK_SYMBOLPATH is significant: If there are duplicate files, the first one found is used. All files are read from all defined folders.

The DXK_SYMBOLPATH is defined in the environment initialization file <your_environment>.ini located in ..\Tekla Structures\<version> \environments\<your_environment> and in the Tekla Structures initialization file tekslastructures.ini located in the ..\Tekla Structures\<version> \nt\bin\ folder.

Separate different folder paths with a semicolon (;). Always end a folder path with a backslash character.

Example

Example with one folder:

DXK_SYMBOLPATH=C:\ProgramData\Tekla Structures\<version> \environments\common\symbols\n
Example with several folders:

DXK_SYMBOLPATH=%XS_FIRM%;%XSDATADIR%\environments\usimp \us_common\symbols%;%XSDATADIR%\environments\common\symbols\n
In the latter example, Tekla Structures first checks your own symbol files in your firm folder, then the symbol files in the US environment symbols folder, and last the symbol files in the common environment symbols folder. If a duplicate file exists, the one that Tekla Structures finds the first is used.

See also

2.5 E

XS_ENABLE_AUTODRAWINGS_IN_MENU

Category Drawing Properties

Set to TRUE to show the AutoDrawing menu command in the Drawings & Reports menu. The default is FALSE.
You can create drawings using wizard files and rule sets also in the Master Drawing Catalog.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

See also

**XS_ENABLE.Inner_CONTOURS_IN_CUT_PARTS**

**Category** Speed and Accuracy

Set this advanced option to **TRUE** to have Tekla Structures create a part cut according to the inner and outer surfaces of the cutting part.

When the advanced option is set to **FALSE**, Tekla Structures creates the cut according to the outer surface of the cutting part. This is the default.

This advanced option is model-specific and the setting is saved in the options database.

**Example** Here a beam has been cut with a round tube.

1. Advanced option set to **TRUE**
2. Advanced option set to **FALSE**

**XS_ENABLE.Middle_BUTTON_DOUBLE_CLICK_ZOOM_ORIGINAL**

**Category** This advanced option can be set in initialization files.

When you set this advanced option to **TRUE**, and double-click the middle mouse button, Tekla Structures zooms the open drawing to its original size.
By default, the pour management functionality is active and the cast-in-place concrete structures are shown as continuous only in the Contractor role, and this advanced option is set to FALSE.

To enable pour management and show concrete structures as continuous in another role, set this advanced option to TRUE. When you have activated this advanced option, the commands for showing and creating pour objects and pour breaks will be available, as well as modifying the pour break properties in drawings.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

Once you set this advanced option to TRUE, Tekla Structures saves the setting in the options.bin file, and the pour management functionality stays active in the current version until you set the advanced option to FALSE. Installing a new Tekla Structures version will not set user-specific advanced options back to their default values. If you want to activate the default value FALSE, you need to delete the options.bin file located in the ..\Users\<user>\AppData\Local\Tekla Structures\<version>\UserSettings folder.

This advanced option can be set in initialization files.

When this advanced option is set to TRUE, the command Publish to Tekla BIMsight is available on the File menu and as a toolbar command 📝. TRUE is the default value. FALSE removes the command from the menu and toolbar. Modifying this advanced options is not recommended.

See also http://www.teklabimsight.com

Concrete Detailing
Use to select an optimal place for the base point of the reinforcing bar mark leader line. If set to TRUE, Tekla Structures selects an optimal place for the base point. The base point only points to one reinforcing bar. The default value is TRUE.

This advanced option is model-specific and the setting is saved in the options database.

**XS_EQUAL_SHAPE_DIMENSIONS_TO_BOTH_ENDS_LIMIT**

**Category** Dimensioning: Parts

Shape dimensions are automatically shown on both ends of a beam, even if the dimensions are the same. You can change this by entering a value in millimeters for this advanced option.

This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.

**Example** If you set this advanced option to 300, and a part is 300 mm shorter in one direction, Tekla Structures only displays the dimension in the longer direction. Use millimeters in all environments.

**XS_ERASE_UDA_VALUE_WITH_ATTRIBUTE_IMPORT_NULL_AND_BLANK**

**Category** This advanced option can be set in initialization files.

Set to TRUE to erase the values of selected user-defined attributes in attribute import.

To select which values of user-defined attributes are erased, enter any of the following values at the end of the file to be imported, in the same order as the user-defined attributes are entered in the file:

- NULL
- null
- blank

**Example** If the content of the input file is the following:

```
ID;USER_FIELD_1;
USER_FIELD_2;USER_FIELD_3; USER_FIELD_41110;NULL;null;;4
```

The result is:

User-defined attribute values for 1-3 are erased in the attribute import. User-defined attribute 4 has the value 4 in the attribute import.
Space and tab are not recommended as delimiters in the input file when this functionality is used.

See also

**XS_EXCLUDED_PARTS_IN_ORIENTATIONAL_NUMBERING**

Category: Numbering

The advanced option `XS_EXCLUDED_PARTS_IN_ORIENTATIONAL_NUMBERING` can be used in conjunction with the orientation numbering setting. Similar parts will be numbered the same even if their orientation is different and the orientation setting has been selected in the Numbering Setup dialog box. You can enter the desired part names separated by spaces. Wildcards are also allowed. This advanced option is model-specific and the setting is saved in the options database.

**XS_EXPORT_CODEPAGE**

Category: Export

Tekla Structures sets the codepage automatically so that exported files are displayed correctly. If the proper codepage cannot be found, the codepage is set to `ansi_1252` by default. You can set the codepage manually by using this advanced option, which overrides the automatic selection of codepage in export. By default, this advanced option is not set to any value.

This advanced option is user-specific and the setting is saved in `options.bin` under user folder. Restart Tekla Structures to activate the new value.

To set the advanced option to the required codepage, use one of the following values:

- `ascii`
- `iso8859-1`
- `iso8859-2`
- `iso8859-3`
- `iso8859-4`
- `iso8859-5`
- `iso8859-6`
- `iso8859-7`
- `iso8859-8`
• iso8859-9
• dos437
• dos850
• dos852
• dos855
• dos857
• dos860
• dos861
• dos863
• dos864
• dos865
• dos869
• dos932
• mac-roman
• big5
• ksc5601
• johab
• dos866
• ansi_1250
• ansi_1251
• ansi_1252
• gb2312
• ansi_1253
• ansi_1254
• ansi_1255
• ansi_1256
• ansi_1257
• ansi_874
• ansi_932
• ansi_936
• ansi_949
• ansi_950
• ansi_1361
• ansi_1200
• ansi_1258

**XS_EXPORT_DGN_COORDINATE_SCALE**

**Category** Export

Use this advanced option to set the coordinate scale to use in DGN exports. DGN coordinate scale does not actually scale the model, but changes the model precision. If you set this advanced option to 100, the accuracy is 1/100 mm. This advanced option is model-specific and the setting is saved in the options database.

**XS_EXPORT_DGN_FILENAME**

**Category** This advanced option can be set in initialization files.

This advanced option has been removed. Use to indicate the output file name in DGN exports. The default is `model.dgn`.

**XS_EXPORT_DGN_INCLUDE_CUTS**

**Category** Export

Use this advanced option to define the cuts to include in DGN exports. You can use the following values:

<table>
<thead>
<tr>
<th>Value</th>
<th>Use to</th>
</tr>
</thead>
<tbody>
<tr>
<td>FALSE</td>
<td>Exclude all cuts.</td>
</tr>
<tr>
<td>TRUE</td>
<td>Include all cuts (default value).</td>
</tr>
<tr>
<td>CLASH</td>
<td>Include all cuts but skip hole cut ends.</td>
</tr>
<tr>
<td>CLASH_NORMPLATE</td>
<td>Same as TRUE for contour plates and CLASH for all other parts.</td>
</tr>
</tbody>
</table>

This advanced option is model-specific and the setting is saved in the options database.
**XS_EXPORT_DGN_INCLUDE_INNER_CONTOUR**

**Category** Export

Use to include or exclude inner contours of tubes in DGN exports. The options are:

- **TRUE** to include inner contours (default)
- **FALSE** (default) to exclude inner contours

This advanced option is model-specific and the setting is saved in the options database.

**XS_EXPORT_DGN_ROUND_SEGMENTS**

**Category** Export

Use to define the number of segments Tekla Structures uses to display round tubes. Tekla Structures uses this value for large tubes (larger than 100 mm) and 80% of this value for small tubes. The default value is 40.

This advanced option is model-specific and the setting is saved in the options database.

**XS_EXPORT_DGN_USE_CLASS_AS_COLOR**

**Category** Export

Set the color for exported parts by the part class (like Color by class in the model).

By default the export uses the current colors of the Tekla Structures view. You can use this advanced option when you have defined some other color setting than Color by class in the Object Representation dialog box, but still want to export with Color by class.

This advanced option is model-specific and the setting is saved in the options database.

**XS_EXPORT_DGN_USE_VOLUMETRIC**

**Category** Export

Set this advanced option to **TRUE** to define plates with profile type plate or polygon plate to DGN type attribute 92 (0x05C in DGN cell header) and all other beams to DGN type attribute 91 (0x05B in DGN cell header) in DGN export. If you set it to **FALSE**, all beams get 91 as the type attribute in DGN export. The default value is **FALSE**.

When this advanced option is set to **TRUE**, mapping to Microstation is successful and the attribute report in Tekla Structures is correct.

This advanced option is model-specific and the setting is saved in the options database.
XS_EXPORT_DRAWING_TRY_TO_KEEP_LOCATION

This advanced option can be set in initialization files.

This advance option is no longer recommended for customer use.

This advanced option affects the origin of the drawing when you export drawings into DWG format. By default, it is set to TRUE. This means that in export, Tekla Structures tries to keep the origin of the main view.

If you set this advanced option to FALSE, the origin (0,0) is set to the bottom left corner of the drawing when the drawing is exported.

This advanced option is system-specific and is read from teklastructures.ini. Generally, there is no need to modify system-specific settings. Do not modify them if you are not an administrator.

XS_EXPORT_FILLMODE

Category Export

Use to control how fills are exported to DWG and DXF formats. The available values are:

This advanced option is model-specific and the setting is saved in the options database.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
<th>Appearance in exported DWG/DXF</th>
<th>Appearance in Tekla Structures</th>
</tr>
</thead>
<tbody>
<tr>
<td>HATCH</td>
<td>Fills are drawn as hatches in the exported DWG/DXF. This is the default value.</td>
<td><img src="image" alt="HATCH" /></td>
<td><img src="image" alt="HATCH" /></td>
</tr>
<tr>
<td>BORDER</td>
<td>Only the border lines of fills are drawn in the exported DWG/DXF.</td>
<td><img src="image" alt="BORDER" /></td>
<td><img src="image" alt="BORDER" /></td>
</tr>
<tr>
<td>FILL</td>
<td>Fills are drawn as filled triangles in the exported DWG/DXF.</td>
<td><img src="image" alt="FILL" /></td>
<td><img src="image" alt="FILL" /></td>
</tr>
<tr>
<td>NONE</td>
<td>Fills are not drawn in the exported DWG/DXF.</td>
<td><img src="image" alt="NONE" /></td>
<td><img src="image" alt="NONE" /></td>
</tr>
</tbody>
</table>

See also

Alphabetical list of advanced options 167 E
XS_EXPORT_LINE_TYPE_DEFINITION_FILE

Category: Export

Enter the name of the line type definition file that contains the line type definitions and is used in line type mapping.

The file name extension of the line type definition file is .lin. The advanced option is set to point to the file TeklaStructures.lin by default.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

See also

XS_EXPORT_STEEL2000_PRIMARY_IDS

Category: Drawing Properties

Set to TRUE to have Tekla Structures include main part IDs in MIS export files. IDs appear on separate rows in the file. The default value is FALSE.

This advanced option is model-specific and the setting is saved in the options database.

XS_EXTERNAL_EXCEL_DESIGN_PATH

This advanced option can be set in initialization files.

This advanced option is system-specific and is read from teklastructures.ini. It can also be set locally, see your environment ini file (env_<environment_name>.ini). Generally, there is no need to modify system-specific settings. Do not modify them if you are not an administrator.

Points to the location of the Excel spreadsheet used in connection design. If you want to change the location, set the advanced option in the user.ini file.

2.6 F
**XS_FILTER_SEPARATOR_CHAR**

**Category**  Modeling properties

Enter the separator to be used between filter strings, for example, in the view filter. You can use any character. By default Tekla Structures uses a space.

**Example**  To use a semi-colon as a separator, set this advanced option as follows:

```plaintext
XS_FILTER_SEPARATOR_CHAR=;
```

This advanced option is model-specific and the setting is saved in the options database.

**XS_FIRM**

**Category**  File Locations

This advanced option is system-specific and only meant for administrators.

Set the advanced options `XS_PROJECT` and `XS_FIRM` along with `XS_SYSTEM` to point to the folders Tekla Structures searches for property files. Tekla Structures always saves properties in the current `model\attributes` folder. You can then copy or move them to `XS_FIRM` or `XS_PROJECT` folders if same settings are needed in other models.

Changing an advanced option value in `.ini` files located outside the model folder does not affect the existing models. You can only update advanced options in the Advanced Options dialog box or in the `options.ini` file located in the model folder; not from an `options.ini` file located in folders defined for the advanced options `XS_FIRM` or `XS_PROJECT`. The `.ini` files are read also when you open an existing model, but only new advanced options that do not exist in `options_model.db` or `options_drawings.db` are inserted, for example, such options that are not yet in the Advanced Options dialog box but have been added in the software.

**See also**

**XS_FIX_FRAME_OF_FIXED_MODELVIEW**

**Category**  Drawing Properties
This advanced option prevents the changing of the view size and location especially in general arrangement drawings.

Set to TRUE to fix the frames of views that have Placing set to Fixed in View Properties. The default value is FALSE.

This advanced option is model-specific and the setting is saved in the options database.

**XS_FLAT_PREFIX**

**Category** Plate Work

Use this advanced option to set the flat bar prefix for output, reports, and marks. If Tekla Structures finds a matching flat bar in the fltprops.inp file, the plate name will consist of the prefix you enter here, followed by the thickness X width, for example FLAT5X100. The default value is FLAT.

By default PL and PLT profiles get the prefix FL or FLT if a matching plate is found in the fltprops.inp.

This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.

In Imperial version, if XS_FLAT_PREFIX is not included in profitab.inp as similar profile as PL (valid parametric profile name), the profile is shown with metric units.

**XS_FLAT_THICKNESS_TOLERANCE**

**Category** Plate Work

Use to set the checking tolerance for flat bars. Tekla Structures uses this value to check plate thickness to determine whether to convert it to a flat bar. Enter a decimal value. The default value is 0.1 mm.

This advanced option is model-specific and the setting is saved in the options database.

**XS_FLAT_TOLERANCE**

**Category** Plate Work
Tekla Structures uses this value to check plate width to determine whether to convert it to a flat bar. Enter a decimal value. The default value is 0.1 mm.
This advanced option is model-specific and the setting is saved in the options database.

FLEXLM_TIMEOUT

Category  This advanced option can be set in initialization files.
This is a Windows environment variable used by Tekla Structures. This variable reduces the delay in starting Tekla Structures. Enter the value in microseconds. For Tekla Structures, the maximum value of this variable is 100 000.
Example  set FLEXLM_TIMEOUT=100000

XS_FRACTION_HEIGHT_FACTOR

Category  Imperial Units
Use this advanced option to control the total height of fractions. The default value in the US Imperial environment is 1.3.
This advanced option is model-specific and the setting is saved in the options database.

XS_FS_POSTFIX_FOR_MERGED_PART_MARK

Category  Marking: Parts
Use to define the far side postfix in merged part marks. This postfix is visible for identical parts on far side. FS is the default value.
This advanced option is model-specific and the setting is saved in the options database.

See also

2.7  G

XS_GA_DRAWING_VIEW_TITLE

Category  Drawing Properties
Use to define a title for a general arrangement drawing view in a multidrawing. By default the value is defined as follows:
Drawing %DRAWING_BASE_NAME%.
This advanced option is model-specific and the setting is saved in the options database.

**XS_GAGE_OF_OUTSTANDING_LEG_STRING**

**Category**  Marking: Bolts

Use to display the gage of outstanding leg (GOL) information in bolt marks (element Gage of outstanding leg) in the following ways:

- If there is no %VALUE% in the string then Tekla Structures adds the GOL value to the end of the string.
- You can enter any combination of text together with option %VALUE%. For example, %VALUE% GOL or GOL%VALUE%.
- If you do not set this advanced option, Tekla Structures only uses %VALUE%.
- If Tekla Structures cannot calculate the value, nothing is added to the mark.
- The default value is GOL%VALUE%.

This advanced option is model-specific and the setting is saved in the options database.

**Example**  Here, the value for the gage of outstanding leg is 5½.

<table>
<thead>
<tr>
<th>In the Advanced Options dialog box</th>
<th>In bolt mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>%VALUE% GOL</td>
<td>5½ GOL</td>
</tr>
<tr>
<td>GOSL %VALUE%</td>
<td>GOSL 5½</td>
</tr>
<tr>
<td>GOL =</td>
<td>GOL = 5½</td>
</tr>
<tr>
<td></td>
<td>5½</td>
</tr>
</tbody>
</table>

**XS_GA_HIDDEN_NORTH_MARK_SYMBOL**

**Category**  Marking: Parts

By default, the symbol for hidden North marks in general arrangement drawings is number 32 in the symbol file. To change the symbol, set this advanced option to a different symbol number.

**See also**

**XS_GA_NORTH_MARK_SCALE**

**Category**  Marking: Parts
By default, Tekla Structures draws North marks in general arrangement drawings using a scale of 1:1. Use this advanced option to specify a different scale. You can also create a larger symbol for North marks in the Symbol Editor.

This advanced option is model-specific and the setting is saved in the options database.

**XS_GA_NORTH_MARK_SYMBOL**

**Category** Marking: parts

By default, the symbol for hidden North marks in general arrangement drawings is number 32 in the symbol file. To change the symbol, set this advanced option to a different symbol number.

This advanced option is model-specific and the setting is saved in the options database.

See also

**XS_GA_OMITTED_DIAMETER_TYPE**

**Category** Marking: bolts

Use to omit marks for specific diameter types in general arrangement drawings. The options are HOLE or BOLT.

This advanced option is model-specific and the setting is saved in the options database.

See also **XS_OMITTED_BOLT_TYPE** on page 220

**XS_GET_ASSEMBLY_LEVELS_FROM_ASSEMBLY_MAIN_PART**

**Category** Marking: Parts

Set this advanced option to **TRUE** to get assembly levels from the assembly main part. Set it to **FALSE** to get the levels from the whole assembly. The default value is **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.

**XS_GET_CAST_UNIT_LEVELS_FROM_CAST_UNIT_MAIN_PART**

**Category** Marking: Parts

Set this advanced option to **TRUE** to get cast unit levels from the cast unit main part. Set it to **FALSE** to get the levels from the whole cast unit. The default value is **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.
**XS_GOL_SYMMETRY_DISTANCE**

**Marking: Bolts**

Gauge of outstanding leg (GOL) is the center to center distance of the holes between two angles usually connected on the web of the beam/column. It is equal to gauge of leg angles plus the web thickness. Outstanding leg is the leg of the angle perpendicular to the paper viewing from the web. Use this advanced option to set the tolerance in part symmetry checking when calculating the gauge of outstanding leg. The default value is 0.01.

This advanced option is model-specific and the setting is saved in the options database.

**See also**

---

**XS_GRID_DIMENSION_OVERALL_LENGTH**

**Category** Dimensioning: General

Set a length to add a dimension line spanning the entire grid next to existing grid dimensions. The default value is 1.

This advanced option is user-specific and the setting is saved in `options.bin` under user folder. Restart Tekla Structures to activate the new value.

---

**XS_GRID_COLOR**

**Category** Model View

Use to change the grid color in the model. Define the color of the grid using RGB values:

```
XS_GRID_COLOR=<value for red> <value for green> <value for blue>.
```

Separate the values with spaces. Define the values on a scale of 0 to 1. The default values are 0.0 0.0 0.0. Close and reopen the view for the change to take effect.

This advanced option is user-specific and the setting is saved in `options.bin` under user folder. Restart Tekla Structures to activate the new value.

**Example**

<table>
<thead>
<tr>
<th>RGB value</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0 1.0 1.0</td>
<td>White</td>
</tr>
<tr>
<td>1.0 0.0 0.0</td>
<td>Red</td>
</tr>
<tr>
<td>0.0 1.0 0.0</td>
<td>Green</td>
</tr>
<tr>
<td>0.0 0.0 1.0</td>
<td>Blue</td>
</tr>
<tr>
<td>1.0 1.0 0.0</td>
<td>Yellow</td>
</tr>
</tbody>
</table>
**XS_GRID_COLOR_FOR_WORK_PLANE**

**Category** Model View

Use to change the color of the work plane grid in the model. Define the color of the grid using RGB values:

```
XS_GRID_COLOR_FOR_WORK_PLANE=<value for red> <value for green> <value for blue>.
```

Separate the values with spaces. Define the values on a scale of 0 to 1. The default values are 0.7 0.0 0.3.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

See also

**XS_GRID_PLANES_VISIBLE_WITH_USERPLANES**

**Category** Model View

Use to show or hide the grid planes in rendered views.

Set to **TRUE** to show the grid planes. Set to **FALSE** (default) to hide the grid planes.

Reopen the view for the change to take effect.

The grid planes can be shown only if the construction planes are visible. To display the construction planes, select the **Construction planes** check box in the **Display** dialog box.

**XS_GRID_TEXT_FONT**

**Category** Drawing Properties

Use to set the font for grid text. The default values is Arial. If you do not specify a font, Tekla Structures uses the default font defined for **XS_DEFAULT_FONT**.

This advanced option is model-specific and the setting is saved in the options database.

See also  **XS_DEFAULT_FONT** on page 87
2.8 H

**XS_HANDLE_SCALE**

**Category** Model view

Use to modify the handle size in rendered model views. Enter a decimal value.

- The default value is 1.3.
- A value larger than 1.3 makes the handles larger and easier to see.
- A value smaller than 1.3 decreases the handles.

Close the view and re-open it to implement the change.

This advanced option is user-specific and the setting is saved in `options.bin` under user folder. Restart Tekla Structures to activate the new value.

**XS_HARD_STAMP_BY_ORIENTATION_MARK**

**Category** CNC

Set this advanced option to **TRUE** to change the default face from bottom (u) to top (o) for L-profiles, rectangular tubes, and round bars. If you do not want to do this, set it to **FALSE** (default).

This advanced option is user-specific and the setting is saved in `options.bin` under user folder. Restart Tekla Structures to activate the new value.

When you have set this advanced option to **TRUE**, you can affect the hard stamp location also by using the advanced options `XS_ORIENTATION_MARK_MOVE_DIST_FOR_BEAMS` and `XS_ORIENTATION_MARK_MOVE_DIST_FOR_COLUMNS`.

**See also**

- `XS_ORIENTATION_MARK_MOVE_DIST_FOR_COLUMNS` on page 222
- `XS_ORIENTATION_MARK_MOVE_DIST_FOR_BEAMS` on page 222

**XS_HATCH_SCALE_LIMIT**

**Category** Hatching
Defines the smallest possible size of the drawn hatch pattern. If the scale of a single hatch pattern is smaller than the defined value, the pattern is changed to a solid face. The default value is 0.001.

This advanced option is model-specific and the setting is saved in the options database.

**XS_HATCH_SEGMENT_BUFFER_SIZE**

**Category** Hatching

Tekla Structures includes a hatch buffer to speed up opening drawings containing hatch. This advanced option defines the size of the buffer.

The default value is 100000. If you use extremely complicated hatches, you may get better performance with a larger value. For small hatches, use a smaller value.

This advanced option is role-specific. When the type **SYSTEM(ROLE)** is in use, the default value is used. When the type **MODEL(ROLE)** or **DRAWING(ROLE)** is in use, you can change the value, which is then the same for all users in the current model.

**XS_HATCH_SPECIAL_COLOR_ACI**

**Category** Export

Use this advanced option to set the autocad color index for the Special color in hatches in drawing export. The default values is 120.

This advanced option is model-specific and the setting is saved in the options database.

See also

**XS_HATCH_SPECIAL_COLOR_R**

**Category** Hatching

Use to define a hatch color that is not converted to black when printed. This color will be printed as color or grayscale, depending on the selected printer settings. The hatch color is defined using RGB (Red Green Blue) values on a scale of 0 to 255. The default for all of the related advanced options is 230.

Define the color using the following advanced options:

- **XS_HATCH_SPECIAL_COLOR_R**
- **XS_HATCH_SPECIAL_COLOR_G**
- **XS_HATCH_SPECIAL_COLOR_B**

The smaller the values, the darker the shade.

This advanced option is model-specific and the setting is saved in the options database.
See also

**XS_HATCH_SPECIAL_COLOR_G**

**Category** Hatching  
See **XS_HATCH_SPECIAL_COLOR_R on page 177**

**XS_HATCH_SPECIAL_COLOR_B**

**Category** Hatching  
See **XS_HATCH_SPECIAL_COLOR_R on page 177**

**XS_HELP_PATH**

**Category** This advanced option is available only in the lang_<CurrentLanguage>.ini files.  
This advanced option specifies the location of the help files in chm (Microsoft Compiled HTML Help) format. These help files are used for example for menu tooltips, enhanced tooltips and some components.  
This advanced option is system-specific and is read from environment files. Generally, there is no need to modify system-specific settings. Do not modify them if you are not an administrator.  
This advanced option tells Tekla Structures the location of the help files to use.  
**Example** set XS_HELP_PATH=%XSDATADIR%\help\enu

**XS_HIDDEN_LINES_CHECK_TOLERANCE**

**Category** Drawing Properties  
Defines the distance within which Tekla Structures treats part lines inside cast units as overlapping lines. The default value is 0.01.  
This advanced option is model-specific and the setting is saved in the options database.

**XS_HIDDEN_NORTH_MARK_SYMBOL**

**Category** Marking: parts
By default hidden North mark symbol is number 32 in the symbol file. To change the symbol, set this advanced option to a different symbol number.

This advanced option is model-specific and the setting is saved in the options database.

See also

**XS_HIDDEN_REMOVE_DOUBLE_LINES**

**Category** Drawing Properties

To have Tekla Structures draw double lines when displaying models with Exact representation and creating drawings and 2D DXF files, set this advanced option to FALSE. The default value is TRUE, which means that Tekla Structures does not draw double lines, to minimize file size.

This advanced option is model-specific and the setting is saved in the options database.

**XS_HIDDEN_USE_BOLT_PLANES**

**Category** Drawing Properties

Set this advanced option to TRUE to hide lines behind a bolt nut (with Exact part representation). To show the lines, set it to FALSE (default).

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**XS_HIDE_OTHER_PARTS_IN_ASSEMBLY_AND_CAST_UNIT_VIEWS**

**Category** Model View

Defines whether parts that do not belong to assemblies and cast units are shown or hidden in assembly and cast unit views. The default value TRUE hides the parts that do not belong to the selected assembly or cast unit. If you set this advanced option to FALSE, the parts are not hidden.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**XS_HIDE_WORKAREA**

**Category** Model View
Set this advanced option to **TRUE** to hide the work area or to **FALSE** to display the work area in a model view. The default is **FALSE**. Redraw the view for the change to take effect.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

<table>
<thead>
<tr>
<th>Example</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Setting</strong></td>
<td><strong>Appearance in model</strong></td>
<td></td>
</tr>
<tr>
<td><strong>FALSE</strong></td>
<td><img src="image1" alt="FALSE" /></td>
<td></td>
</tr>
<tr>
<td><strong>TRUE</strong></td>
<td><img src="image2" alt="TRUE" /></td>
<td></td>
</tr>
</tbody>
</table>

**XS_HIGHLIGHT_ASSOCIATIVE_DIMENSION_CHANGES**

**Category** Dimensioning: General

Use to define whether changed dimension text and moved dimension points are highlighted in associative drawings.

When set to **TRUE** (default), Tekla Structures highlights the changed dimension text and the moved dimension points in updated associative drawings.

Tekla Structures highlights the changes in the following ways:

- A change symbol (by default a cloud) is drawn around the old point, the new point and the dimension values. It is displayed only when you select the dimension.

- An arrow is drawn from the old point to the new point.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**See also**

- **XS_HIGHLIGHT_MARK_CONTENT_CHANGES** on page 181
- **XS_ASSOCIATIVE_CHANGE_HIGHLIGHT_SYMBOL** on page 46

Alphabetical list of advanced options 180 H
XS_HIGHLIGHT_MARK_CONTENT_CHANGES

**Category** Marking: General

Use to define whether changed mark contents are highlighted in associative drawings.

When set to **TRUE** (default), Tekla Structures highlights the mark contents that have been changed in updated associative drawings by drawing a change symbol (by default a cloud) around the changed mark content.

This advanced option is user-specific and the setting is saved in `options.bin` under user folder. Restart Tekla Structures to activate the new value.

**See also**
- XS_HIGHLIGHT_ASSOCIATIVE_DIMENSION_CHANGES on page 180
- XS_ASSOCIATIVE_CHANGE_HIGHLIGHT_SYMBOL on page 46
- XS_ASSOCIATIVE_CHANGE_HIGHLIGHT_SIZE on page 45

XS_HOLE_MARK_STRING_FOR_SIZE

**Category** Marking: Bolts

Use to define the contents of the **Size** element in hole marks. The default value is `%BOLT_NUMBER%*D%HOLE.DIAMETER%`.

The advanced options `XS_SHOP_HOLE_MARK_STRING_FOR_SIZE` and `XS_SITE_HOLE_MARK_STRING_FOR_SIZE` override this setting.

You can use any combination of text and the following options as the value for this advanced option. Enclose each option in `%` characters. To use special characters enter a backslash (\) followed by an ASCII number. You can use the options in any order, and make calculations.

- BOLT_NUMBER
- DIAMETER
- LENGTH
- HOLE.DIAMETER
- LONG_HOLE_X
- LONG_HOLE_Y
- LONGHOLE_MIN (the shorter of the slotted hole dimensions)
- LONGHOLE_MAX (the longer of the slotted hole dimensions)
- BOLT_STANDARD
This advanced option is model-specific and the setting is saved in the options database.

See also  
XS_SITE_HOLE_MARK_STRING_FOR_SIZE on page 283  
XS_SHOP_HOLE_MARK_STRING_FOR_SIZE on page 267

**XS_HOLE_MARK_STRING_FOR_SIZE_IN_GA**

**Category** Marking: Bolts

Use to define the contents of the size element in bolt marks in general arrangement drawings. If you have not set the advanced options  
XS_SHOP_HOLE_MARK_STRING_FOR_SIZE_IN_GA or  
XS_SITE_HOLE_MARK_STRING_FOR_SIZE_IN_GA, then this advanced option is used.

You can use any combination of text and the following options as the value for this advanced option. Enclose each option in % characters. To use special characters enter a backslash (\) followed by an ASCII number. You can use the options in any order, and make calculations.

- BOLT_NUMBER
- DIAMETER
- LENGTH
- HOLE_DIAMETER
- LONG_HOLE_X
- LONG_HOLE_Y
- LONGHOLE_MIN (the shorter of the slotted hole dimensions)
- LONGHOLE_MAX (the longer of the slotted hole dimensions)
- BOLT_STANDARD
- BOLT_MATERIAL
- BOLT_ASSEMBLY_TYPE
- BOLT_COUNTERSUNK
- BOLT_SHORT_NAME
• BOLT_FULL_NAME

This advanced option is model-specific and the setting is saved in the options database.

See also
XS_SHOP_HOLE_MARK_STRING_FOR_SIZE_IN_GA on page 268
XS_SITE_HOLE_MARK_STRING_FOR_SIZE_IN_GA on page 284

2.9 I

XS_IGNORE_SUBASSEMBLY_HIERARCHY_IN_DIMENSIONING

Category Dimensioning: Parts

Use to define whether sub-assembly parts are dimensioned as secondary parts of the main assembly.

When set to TRUE, Tekla Structures ignores sub-assemblies, and parts inside the sub-assemblies are dimensioned as if they were parts in the main assembly. The default value is FALSE.

This advanced option is model-specific and the setting is saved in the options database.

XS_IMPERIAL

Category Imperial Units

Set this advanced option to TRUE to have output in imperial units only. If you do not want to do this, set it to FALSE (default).

This affects only the following elements of bolt marks:

• Gage of outstanding leg (GOL)
• Center-to-center distance

This advanced option is model-specific and the setting is saved in the options database.

XS_IMPERIAL_DATE

Category Imperial units

Alphabetical list of advanced options 183
Set this advanced option to **TRUE** to use the date format mm/dd/yyyy. Set it to **FALSE** (default) to use the date format dd.mm.yyyy.

This advanced option is user-specific and the setting is saved in `options.bin` under user folder. Restart Tekla Structures to activate the new value.

### XS_IMPERIAL_INPUT

**Category** Imperial Units

Set this advanced option to **TRUE** to allow input in imperial units only. To disable the advanced option, set it to **FALSE** (default).

This advanced option is model-specific and the setting is saved in the options database.

### XS_IMPERIAL_TIME

**Category** Imperial Units

Set this advanced option to **TRUE** to use the time format `hh:mm:ss` am/pm.

Set to **FALSE** to use the time format `hh:mm:ss`.

This advanced option is user-specific and the setting is saved in `options.bin` under user folder. Restart Tekla Structures to activate the new value.

### XS_IMPERIAL_TRIANGLES

**Category** Imperial Units

Set this advanced option to **TRUE** to also show triangle ratios in inches.

The default value is **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.

### XS_IMPORT_MODEL_LOG

**Category** Import

Set to **TRUE** to create a log every time you use an import model.

Set to **APPEND** to append a log entry to the previous log.

This advanced option is user-specific and the setting is saved in `options.bin` under user folder. Restart Tekla Structures to activate the new value.
**XS_INCH_SIGN_ALWAYS**

**Category**  
Imperial Units

By default, Tekla Structures does not put an inch symbol (") in dimensions which contain only inches. Set this advanced option to **TRUE** to show inch symbols in all dimensions. The default value is **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.

**XS.Include_DWG_Attributes_in_Reports_and_Inquire**

**Category**  
Speed and Accuracy

DWG-specific attributes are now available in reports and inquiries only if this advanced option is set to **TRUE**. This advanced option is by default set to **FALSE**.

This advanced option is role-specific. When the type **SYSTEM(ROLE)** is in use, the default value is used. When the type **MODEL(ROLE)** or **DRAWING(ROLE)** is in use, you can change the value, which is then the same for all users in the current model.

**XS_Inherit_Concrete_Part_Numbering_Settings_from_Cast_Unit**

**Category**  
Numbering

Use this advanced option to define whether to set concrete part numbering according to cast unit numbering settings. If you set this advanced option to **TRUE** (default), the part number prefix for concrete parts includes the cast unit prefix and the start number. If you set the advanced option to **FALSE**, the cast unit prefix and the start number are not included.

For example, the cast unit prefix is **C** and the start number is **100**. When the advanced option is **TRUE**, the concrete part prefix is **Concrete_C-100**. When the advanced option is **FALSE**, the prefix is only **Concrete**.

This setting affects concrete parts: Strip and pad footings, concrete beams and columns, concrete walls and slabs, and concrete polybeams.

This feature does not affect converted models (models created with versions before 16.0).

This advanced option is model-specific and the setting is saved in the options database.

**See also**  
**XS.Concrete_Part_Numbering_Prefix** on page 77  
**XS.Concrete_Part_Numbering_Start_Number** on page 77
XS_INP

This advanced option can be set in initialization files.

This advanced option is system-specific and is read from teklastructures.ini. It can also be set locally, see your environment ini file (env_<environment_name>.ini).

Generally, there is no need to modify system-specific settings. Do not modify them if you are not an administrator.

This advanced option points to the folder containing the objects.inp. The default location is XSDATADIR%\environments\common\inp\. You can use semicolon-separated lists of folder paths.

XS_INTELLIGENCE_DO_NOT_REMOVE_OBSOLETE_VIEWS

Category Drawing Properties

Enter TRUE in the Value field to prevent drawing views from being deleted when associated objects are removed from the model. FALSE is the default.

This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.

For general arrangement drawings use the advanced option XS_INTELLIGENCE_DO_NOT_REMOVE_OBSOLETE_VIEWS_IN_GA.

See also XS_INTELLIGENCE_DO_NOT_REMOVE_OBSOLETE_VIEWS_IN_GA on page 186

XS_INTELLIGENCE_DO_NOT_REMOVE_OBSOLETE_VIEWS_IN_GA

Category Drawing Properties

Enter TRUE (default) to prevent drawing views from being deleted when associated objects are removed from the model.

This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.

See also XS_INTELLIGENCE_DO_NOT_REMOVE_OBSOLETE_VIEWS on page 186

XS_INTELLIGENCE_MAX_PART_COUNT

Category Drawing Properties

Alphabetical list of advanced options 186 |
Enter an integer to define how many parts are taken into account when searching for associated objects. The advanced option is set to 20 by default.

This advanced option is model-specific and the setting is saved in the options database.

**XS_INTELLIGENCE_MAX_PLANE_COUNT**

*Category*: Drawing Properties

Enter an integer to define how many planes are taken into account when searching for associated objects. The advanced option is set to 1000 by default.

This advanced option is model-specific and the setting is saved in the options database.

**XS_INTELLIGENCE_MAX_RULE_COUNT**

*Category*: Drawing Properties

Use to decrease the number of associative rules that are used for one measurement point. A smaller value, for example 10 (default), is usually enough. A smaller value may also increase performance and decrease the database size.

This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.

Use this advanced option only in cases where there are performance issues with associative drawings. Using this advanced option may cause losing of associativity in some cases when objects are deleted from the model.

**XS_INTELLIGENT_CLONING_ADD_DIMENSIONS**

*Category*: Drawing Properties

Set to `TRUE` to create dimensions for additional parts using automatic dimensioning during cloning, and to `FALSE` to prevent this. The default is `TRUE`.

This advanced option is model-specific and the setting is saved in the options database.

**XS_INTELLIGENT_DRAWING_ALLOWED**

*Category*: Drawing Properties
Clear the value or set it to FALSE to prevent Tekla Structures from automatically moving dimensions, marks, etc. according to model changes. TRUE is the default value.

This advanced option is model-specific and the setting is saved in the options database.

To control how the drawing view placing works when the model changes, set this advanced option to TRUE and use it together with the advanced option XS_DRAWING_UPDATE_VIEW_PLACING.

This setting affects all drawings. To prevent Tekla Structures from automatically updating general arrangement drawings, use the advanced option XS_INTELLIGENT_DRAWING_ALLOWED_IN_GA.

See also
XS_INTELLIGENT_DRAWING_ALLOWED_IN_GA on page 188
XS_DRAWING_UPDATE_VIEW_PLACING on page 144

**XS_INTELLIGENT_DRAWING_ALLOWED_IN_GA**

**Category** Drawing Properties

Clear the value or set the advanced option to FALSE to prevent Tekla Structures from automatically moving dimensions, marks, etc. according to model changes.

This advanced option is model-specific and the setting is saved in the options database.

This setting affects only general arrangement drawings. To prevent Tekla Structures from automatically updating all types of drawings, use the advanced option XS_INTELLIGENT_DRAWING_ALLOWED.

See also
XS_INTELLIGENT_DRAWING_ALLOWED on page 187

**XS_INTELLIGENT_MESSAGES_ALLOWED**

**Category** Drawing Properties

Set this advanced option to TRUE to display message when a drawing is opened if a model object to which one or more drawing objects are linked is deleted from the model.

If you do not want to display the message, set this advanced option to FALSE (default).

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.
**XS_INTELLIGENT_UPDATE_ADD_DIMENSIONS**

**Category**  Drawing Properties

Set to **TRUE** to add dimensions for new parts, bolts and reinforcing bars when updating drawings and to **FALSE** to prevent this. The default is **TRUE**.

This advanced option is model-specific and the setting is saved in the options database.

**XS_INVALID_POUR_BREAK_COLOR**

This advanced option can be set in initialization files.

Use this advanced option to change the color of invalid pour breaks in model views. Enter number as the value using the class numbers in the part properties dialog box to indicate the color. For example, if you set this advanced option to 6, Tekla Structures will color all invalid pour breaks yellow. The default value is 58 (red).

**XS_I_PROFILE_CENTER**

**Category**  Dimensioning: Parts

Set to **NONE** to prevent Tekla Structures from using the center line of I profiles to dimension front views. By default, no value is set.

This advanced option is model-specific and the setting is saved in the options database.

**XS_JOINT_NUMBER_FORMAT**

**Category**  Marking: General

The connection numbers are visible in drawings, when you set the Connection mark field to **Number** in the Connection mark properties dialog box. Use this advanced option to define the connection number format. For example, you can use it to define prefix text.

This advanced option is model-specific and the setting is saved in the options database.

**Example**  In **XS_JOINT_NUMBER_FORMAT=J%3.3d**:
• \( J \) is the prefix.
  The rest of the string defines the number format.
• The first number defines the minimum field width.
• The second number defines the minimum quantity of numbers to display.
• \( \% \) and \( d \) (integer value) indicate the format.

**XS_JOINTS_USE_NOTCH1**

**Category** Components

Set to 1 to have connections use standard notch routines. This is the default value.
Set to 0 to have connections use simple notch routines.
This advanced option is model-specific and the setting is saved in the options database.

2.11 K

**XS_KEEP_AUTOSAVE_FILES_ON_EXIT_WHEN_NOT_SAVING**

**Category** Modeling Properties

Tekla Structures deletes autosave files when you close a model to save disk space. If this advanced option is set to TRUE, Tekla Structures does not delete these files, even if you exit Tekla Structures without saving the model. The default value is TRUE.
This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**XS_KEYIN_ABSOLUTE_PREFIX**

**Category** Modeling Properties

Defines the character used in absolute snapping. Enter any allowed ASCII character. If you have set Tekla Structures to use absolute snapping by default using the advanced option XS_KEYIN_DEFAULT_MODE, you do not need to use a snap character for absolute snapping. The default value is $.
This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.
**XS_KEYIN_DEFAULT_MODE**

**Category** Modeling Properties

Defines the snapping mode Tekla Structures uses by default. Set to RELATIVE (default), GLOBAL, or ABSOLUTE.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

See also
- XS_KEYIN_RELATIVE_PREFIX on page 191
- XS_KEYIN_ABSOLUTE_PREFIX on page 190
- XS_KEYIN_GLOBAL_PREFIX on page 191

**XS_KEYIN_GLOBAL_PREFIX**

**Category** Modeling Properties

Defines the character used to activate input in global coordinates. The default value is !. The keyboard shortcut for global input is g. If you have set Tekla Structures to use global snapping by default using the advanced option XS_KEYIN_DEFAULT_MODE, you do not need to use a snap character for global snapping.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

See also
- XS_KEYIN_DEFAULT_MODE on page 191
- XS_KEYIN_ABSOLUTE_PREFIX on page 190
- XS_KEYIN_RELATIVE_PREFIX on page 191

**XS_KEYIN_RELATIVE_PREFIX**

**Category** Modeling Properties

Defines the character used in relative snapping. Enter any allowed ASCII character. If you have set Tekla Structures to use relative snapping by default using the advanced option...
XS_KEYIN_DEFAULT_MODE, you do not need to use a snap character for relative snapping. The default value is @.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

See also  XS_KEYIN_DEFAULT_MODE on page 191
XS_KEYIN_ABSOLUTE_PREFIX on page 190

XS_KNOCK_OFF_DIMENSION_PRECISION

Category  Dimensioning: General

Set this advanced option to 16 or 32 to set the precision of the knock-off dimensions to 1/16 or 1/32. Otherwise the precision is the one that is set in the drawing level dimensioning dialog box. The default value is zero. Other values are ignored, and knock off dimension precision is the same as for other dimensions.

2.12  L

XS_LANGUAGE

Category  This advanced option can be set in initialization files.

This advanced option is system-specific and is read from environment files. Generally, there is no need to modify system-specific settings. Do not modify them if you are not an administrator.

This advanced option sets the Tekla Structures default language. The default language is displayed first when you select Tools -- Change Language... .

LEGEND_MODEL_PATH

Category  This advanced option can be set in initialization files.

Points to the location of the legend_text.fields file, which contains all the available template table fields.

The file legend_text.fields is only used with Template Editor version 2.2.
**XS_LINE_WIDTH**

**Category**  Model View

Use to change the width of lines in rendered views. Enter the value in pixels.

This advanced option is model-specific and the setting is saved in the options database.

**XS_LICENSE_SERVER_HOST**

This advanced option can be set in initialization files.

With this advanced option the administrator can predefine the license server for the user, so that the user does not need to type the license server port and hostname in the Connect to License Server dialog box at the first start of the Tekla Structures software.

You can add this advanced option in a customized .ini file and use it in startup shortcuts for starting teklastructures.exe with the initialization that you have customized, for example.

Enter the advanced option value in one of the following formats:

- port@host
- port@ip-address

**XS_LOAD_MODELING_CODE**

**Category**  This advanced option can be set in initialization files.

Use this advanced option for defining the set of load group types. Load combinations are generated according to rules that are specific to the load modeling code. The default value is EuroCode.

**Possible values are:** EuroCode, AISC, UBC, IBC, ACI, BS, CM66 (F), and BAEL91 (F).

**Example**

```
set XS_LOAD_MODELING_CODE=EuroCode
```

**XS_LOG_FILE_NAME**

**Category**  This advanced option can be set in initialization files.
This advanced option is system-specific and is read from environment files. Generally, there is no need to modify system-specific settings. Do not modify them if you are not an administrator.

This advanced option defines the name of the Tekla Structures log file. The default value is TeklaStructures.log.

See also

**XS_LOGPATH**

**Category** This advanced option can be set in initialization files.

This advanced option points to the folder that contains the Tekla Structures log file.

This advanced option is system-specific and is read from environment files. Generally, there is no need to modify system-specific settings. Do not modify them if you are not an administrator.

**XS_LONGHOLE_MARK_STRING_FOR_SIZE**

**Category** Marking: bolts

Use to define the contents of the Size element in slotted hole marks. For example, enter %BOLT_NUMBER%*D%HOLE.DIAMETER% (%HOLE.DIAMETER+LONG_HOLE_X% x %HOLE.DIAMETER+LONG_HOLE_Y%).

The advanced options **XS_SHOP_LONGHOLE_MARK_STRING_FOR_SIZE** and **XS_SITE_LONGHOLE_MARK_STRING_FOR_SIZE** override this setting.

You can use any combination of text and the following options as the value for this advanced option. Enclose each option in % characters. To use special characters enter a backslash (\) followed by an ASCII number. You can use the options in any order, and make calculations.

- **BOLT_NUMBER**
- **DIAMETER**
- **LENGTH**
- **HOLE.DIAMETER**
- **LONG_HOLE_X**
- **LONG_HOLE_Y**
- **LONGHOLE_MIN** (the shorter of the slotted hole dimensions)
- **LONGHOLE_MAX** (the longer of the slotted hole dimensions)
- **BOLT_STANDARD**
- **BOLT_MATERIAL**
• BOLT_ASEMBLY_TYPE
• BOLT_COUNTERSUNK
• BOLT_SHORT_NAME
• BOLT_FULL_NAME

This advanced option is model-specific and the setting is saved in the options database.

See also
XS_SITE_LONGHOLE_MARK_STRING_FOR_SIZE on page 285
XS_SHOP_LONGHOLE_MARK_STRING_FOR_SIZE on page 269

XS_LONGHOLE_MARK_STRING_FOR_SIZE_IN_GA

Category Marking: Bolts

Use to define the contents of the size element in longhole marks in general arrangement drawings. If you have not set the advanced options
XS_SHOP_LONGHOLE_MARK_STRING_FOR_SIZE_IN_GA or
XS_SITE_LONGHOLE_MARK_STRING_FOR_SIZE_IN_GA, then this advanced option is used.

You can use any combination of text and the following options as the value for this advanced option. Enclose each option in % characters. To use special characters enter a backslash (\) followed by an ASCII number. You can use the options in any order, and make calculations.

• BOLT_NUMBER
• DIAMETER
• LENGTH
• HOLE_DIAMETER
• LONG_HOLE_X
• LONG_HOLE_Y
• LONGHOLE_MIN (the shorter of the slotted hole dimensions)
• LONGHOLE_MAX (the longer of the slotted hole dimensions)
• BOLT_STANDARD
• BOLT_MATERIAL
• BOLT_ASEMBLY_TYPE
• BOLT_COUNTERSUNK
• BOLT_SHORT_NAME
• BOLT_FULL_NAME

This advanced option is model-specific and the setting is saved in the options database.

See also

XS_SHOP_LONGHOLE_MARK_STRING_FOR_SIZE_IN_GA on page 270
XS_SITE_LONGHOLE_MARK_STRING_FOR_SIZE_IN_GA on page 285

2.13 M

XS_MACRO_DIRECTORY

Category File Locations

Specifies a global and a local folder for recorded macro files. Macro files are usually language and environment dependent and will not run in any other environment or language. This advanced option is system-specific.

Use a semicolon (;) as a separator. Do not define more than two macro folders.

First define the global folder and then the local folder: ..\ProgramData\Tekla Structures\<version>\environments\common\macros;..
\ProgramData\Tekla Structures\<version>\environments \<your_environment>\macros. This advanced option is by default set to ..\ProgramData\Tekla Structures\<version>\environments\common \macros.

Please, do not change the global folder. If necessary, you may change the local folder.

In the Tools --> Macros dialog box, you can select which macros to run by selecting the Local or Global option button. The buttons are not visible if you specify only one macro folder.

The macro folder must contain subfolders modeling and drawings.

See also Recording, editing and running macros
XS_MACRO_ENABLE_TIMESTAMP

Category Modeling Properties

Set this advanced option to TRUE to examine the time spent on different tasks while recording macros. This advanced option is system-specific.

The default value is FALSE. If you change the value, you need to reopen the model to activate the new setting.

The timestamps are in the .cs file of the macro in question, which is located in ..environments/common/macros folder. The macro is saved in the drawings or modeling folders, depending on in which mode the macro was recorded.

```csharp
// Generated by Tekla.Technology.Akit.ScriptBuilder
namespace Tekla.Technology.Akit.Userscript
{
    public class Script
    {
        public static void Run(Tekla.Technology.Akit.Userscript akit)
        {
            akit.ValueChange("ElementCatalogLogalog", "txtFileSearch", "344");
            akit.RunButton("butSearchButton", "ElementCatalogLogalog");
        }
    }
}
```

See also

XS_MACRO_REFERENCES

Category Modeling Properties

This advanced option defines a path to an additional library that is used when a macro is compiled. The default path is;System.Windows.Forms;Tekla.Technology.Scripting;Tekla.Structures;Tekla.Structures.Model;Tekla.Structures.Drawing;MacroSelector;System.Drawing;System.Data;System.Xml;Tekla.DataSharing.CacheServiceClient;Tekla.DataSharing.SharedPublic.

This advanced option is system-specific.

XS_MACRO_LOG

Category Modeling Properties

This advanced option can be set in initialization files.

By default Tekla Structures macro output is displayed in the terminal window. Set this advanced option to a file name to save this output to a file.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.
**XS_MAGNETIC_PLANE_OFFSET**

**Category** Components

Use to adjust the magnetic distance of magnetic planes. By default the distance is 0.2 mm.

Setting this advanced option does not affect magnetic construction lines.

This advanced option is model-specific and the setting is saved in the options database.

**See also**

**XS_MARK_ALL_BOLT_GROUPS_SEPARATELY**

**Category** Marking: Bolts

Set this advanced option to **TRUE** to prevent Tekla Structures from combining bolt group marks. By default Tekla Structures combines bolt group marks (**FALSE**).

This advanced option is model-specific and the setting is saved in the options database.

**Example**

In this example, the left group of bolts was created as a bolt group, and the right group of bolts was created as separate bolts.

In the image below, this advanced option is set to **TRUE**.

In the image below, **FALSE** is used.
XS_MARK_ELEMENT_SPACE_FACTOR

Category   Marking: General
By default Tekla Structures leaves a space 0.3*text height between mark elements. Use this advanced option to change the default value.
This advanced option is model-specific and the setting is saved in the options database.

Example   In the example below, the default value 0.3 was changed to 1.

GB/3 ( 300*600 )

GB/3 ( 300*600 )

XS_MARK_FONT

Category   Drawing Properties
You can set the mark text font (for part marks etc.) by giving the name of the font to this advanced option. The default value is Arial. If no font is given, Tekla Structures uses the default font defined for XS_DEFAULT_FONT.
This advanced option is model-specific and the setting is saved in the options database.

See also   XS_DEFAULT_FONT on page 87
**XS_MARK_LEADER_LINE_ARROW_HEIGHT**

**Category** Marking: General

Height of arrow head in mark leader line. 1 is the default value. For example, the standard AutoCAD leader line arrow height is 0.67.

This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.

**XS_MARK_LEADER_LINE_ARROW_LENGTH**

**Category** Marking: general

Length of arrow head in mark leader line. The default is 2.5.

This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.

**XS_MARK_LEADER_LINE_EXTENSION_LENGTH**

**Category** Marking: General

Use to define the length of the leader line extension. The extension is placed before the start of a text string. Give the length in millimeters. The default value is 0.

This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.

**See also**

**XS_MARK_LEADER_LINE_POSITION_TYPE_FOR_NO_FRAME**

**Category** Marking: General

Use to define the leader line position for a leader line pointing to a mark:

- without a mark frame (mark frame deleted from the General page of the mark properties dialog box)
- without a mark frame but with a mark element frame (mark frame deleted from the General page, and element frame selected on the Content page of the mark properties dialog box).

The default value is 0.
You may want to keep the default value 0 for the advanced option `XS_MARK_LEADER_LINE_EXTENSION_LENGTH`, when using `XS_MARK_LEADER_LINE_POSITION_TYPE_FOR_NO_FRAME`.

This advanced option is role-specific. When the type `SYSTEM(ROLE)` is in use, the default value is used. When the type `MODEL(ROLE)` or `DRAWING(ROLE)` is in use, you can change the value, which is then the same for all users in the current model.

<table>
<thead>
<tr>
<th>Position</th>
<th>Appearance</th>
<th>Set the advanced option to</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nearest corner.</td>
<td><img src="image" alt="Example" /></td>
<td>0</td>
</tr>
<tr>
<td>In the middle of the text area.</td>
<td><img src="image" alt="Example" /></td>
<td>1</td>
</tr>
<tr>
<td>1/3 from the top of the text area.</td>
<td><img src="image" alt="Example" /></td>
<td>2</td>
</tr>
<tr>
<td>In the middle of the first row of text.</td>
<td><img src="image" alt="Example" /></td>
<td>3</td>
</tr>
</tbody>
</table>
The leader line connects to the frame around the mark element (not to the frame around the whole mark). The mark frame has been deleted in the mark properties.

Set the advanced option to Nearest corner.

See also  
XS_MARK_LEADER_LINE_POSITION_TYPE_FOR_RECTANGULAR_FRAME on page 202  
Additional ways for modifying part mark leader lines  
XS_MARK_LEADER_LINE_EXTENSION_LENGTH on page 200

**XS_MARK_LEADER_LINE_POSITION_TYPE_FOR_RECTANGULAR_FRAME**

**Category**  
Marking: General  

Use to define the leader line position for a leader line with a rectangular frame. The default value is 0.

This advanced option is model-specific and the setting is saved in the options database.

**Example**

<table>
<thead>
<tr>
<th>Position</th>
<th>Appearance</th>
<th>Set the advanced option to</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nearest corner.</td>
<td></td>
<td>0</td>
</tr>
</tbody>
</table>

Alphabetical list of advanced options  
202  
M
By default Tekla Structures leaves a space of 0.3*text height between the lines in multi-line marks, for example, part, bolt, and connection marks. Use this advanced option to change the default value.

This advanced option is model-specific and the setting is saved in the options database.

In the example below, the value was changed from 0.3 to 1.

**XS_MARK_LINE_SPACE_FACTOR**

**Category** Marking: General

See also [XS_MARK_LEADER_LINE_POSITION_TYPE_FOR_NO_FRAME](#) on page 200
**XS_MARK_TEXT_FRAME_BOX_HEIGHT_FACTOR**

**Category**  Marking: General

By default Tekla Structures leaves a space of 0.5 *text height between the text and the frame around the text. Use this advanced option to change the default value.

This advanced option is model-specific and the setting is saved in the options database.

In the example below, the value was changed from 0.5 to 2.
XS_MATERIAL_SYMBOL_REPRESENTATION_FILE

Category Drawing properties
Enter the folder path and filename of the file containing the user-defined material symbols, for example material_symbol_table.txt.
This advanced option is model-specific and the setting is saved in the options database.

See also

XS_MAX_ANGLE_BETWEEN_SKEWED_END_PLATE_AND_BEAM_END

Category Drawing Properties
Use to produce section views and dimensions of slightly skewed end plates. An end plate can be sloping or skewed to such a small degree that it is unnecessary to bevel cut the end of the main part. If the end plate is not dimensioned in the section view, you need to set a limit for the end plate angle.
Tekla Structures dimensions any end plate skewed less than this value in section views. Larger angle dimensions do not appear in the section view. Set the angle between the skewed end plate and beam in degrees. The default angle is 0.
This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.

XS_MAX_ANGLE_TOLERANCE_BETWEEN_COMPLEX_MAIN_PARTS

Category Dimensioning: Parts
Use to define the maximum angle range (0...1) within which Tekla Structures will dimension non-parallel parts as one. The default value is 0.01.
This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.

XS_MAX_AUTOMATIC_RADIUS_DIMENSION

Category Dimensioning: Parts
Defines the maximum radius when you use automatic radius in single part drawings. The default value is 5000. Tekla Structures will display radii smaller than the value you enter in drawings.
This advanced option is model-specific and the setting is saved in the options database.
### XS_MAX_DECIMALS_IN_PROFILE_NAME

**Category** Profiles

Use this advanced option to control the number of decimals in profile names. The default value is 1.

This advanced option only affect plates created directly in the model. The advanced option XS_PLATE_ROUNDING_DECIMALS affects plates created by components.

This advanced option works on plates only if you set the advanced option XS_USE_NEW_PLATE_DESIGNATION to TRUE on the Plate Work page in the Advanced Options dialog box.

You also need to recreate the drawings for the changes to take place.

See also  
XS_USE_NEW_PLATE_DESIGNATION on page 319  
XS_PLATE_ROUNDING_DECIMALS on page 228

### XS_MAX_DEVIATION_FOR_CURVED_PART_EDGES

**Category** Concrete Detailing

When you camber a part, Tekla Structures calculates all the part vertices to be on a circle arc, but all span edges between two vertices are approximations of the arc. Use this advanced option to limit the maximum distance by which the edge can deviate from the arc.

Define the value in millimeters. The default is 2.0. The minimum value is 0.1.

This advanced option is model-specific and the setting is saved in the options database.

See also  
XS_WARP_MAX_ANGLE_BETWEEN_CS on page 338

### XS_MAX_FRACTIONS_IN_MODEL_DIMENSION

**Category** Imperial Units

Defines the measuring accuracy in models in the US Imperial environment. For example, this accuracy affects the imperial measurements shown with the Measure tool. You can enter
any number, but you should use numbers such as 8, 16, 32, 64, 128 and 256. The default value is 16.

This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.

Example To use the accuracy of 1/32, set this advanced option to 32.

**XS_MAXIMUM_NUMBER_OF_PLANES_TO_NAME**

**Category** Modeling Properties

Use to define how many planes Tekla Structures names when the planes are used, for example, in defining distance variables. The default value is 400.

When the maximum number of planes is reached, Tekla Structures stops naming the planes and uses the name **Undefined plane** for the rest of the planes.

This advanced option is model-specific and the setting is saved in the options database.

**XS_MAX_MERGE_DISTANCE_IN_HORIZONTAL**

**Category** Marking: Parts

Defines the maximum horizontal distance within which identical reinforcement get merged marks. This advanced option only affects merging of reinforcing bar marks pointing to individual reinforcing bars, not marks pointing to a group of reinforcing bars, or marks within a group of reinforcing bars. The default value is 600 mm.

This advanced option is model-specific and the setting is saved in the options database.

**See also**  **XS_MAX_MERGE_DISTANCE_IN_VERTICAL** on page 207

**XS_MAX_MERGE_DISTANCE_IN_VERTICAL**

**Category** Marking: Parts

Defines the maximum vertical distance within which identical reinforcement get merged marks. This advanced option only affects merging of reinforcing bar marks pointing to individual reinforcing bars, not marks pointing to a group of reinforcing bars, or marks within a group of reinforcing bars. The default value is 600 mm.

This advanced option is model-specific and the setting is saved in the options database.

**See also**  **XS_MAX_MERGE_DISTANCE_IN_HORIZONTAL** on page 207
**XS_MAX_SPACE_BETWEEN_COMPLEX_ASSEMBLY_PARALLEL_PARTS**

**Category** Dimensioning: Parts

Use to define the maximum distance allowed between parallel parts for Tekla Structures to dimension them as one. The default value is 1000.

This advanced option is role-specific. When the type **SYSTEM(ROLE)** is in use, the default value is used. When the type **MODEL(ROLE)** or **DRAWING(ROLE)** is in use, you can change the value, which is then the same for all users in the current model.

**XS_MESSAGES**

**Category** This advanced option can be set in initialization files.

Use to define the location of the message files. All message files have the file name extension .ail.

This advanced option is system-specific and it can be defined in only in the file lang_<language>.ini located in the folder ..\Tekla Structures \<version>\nt\bin.

**See also**

**XS_MDI_BASICVIEWPARENT**

**Category** Model View

Set this advanced option to **TRUE** (default) to allow connection or default view windows to be moved within the Tekla Structures window.

Set this advanced option to **FALSE** to allow connection or default view windows to be moved anywhere on the Windows desktop.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**See also** **XS_MDI_VIEWPARENT** on page 208

**XS_MDI_VIEWPARENT**

**Category** Model View

Set this advanced option to **TRUE** to allow view windows to be moved only within the Tekla Structures window.
Set this advanced option to `FALSE` to allow view windows to be moved anywhere on the Windows desktop. This gives you more workspace on the screen, because view windows move to the front when you click on them and open dialog boxes remain behind the views. It also allows you to enlarge Tekla Structures windows to fill the entire desktop.

The default value is `TRUE`.

If you use `FALSE`, Mini Toolbar is not displayed.

This advanced option is user-specific and the setting is saved in `options.bin` under user folder. Restart Tekla Structures to activate the new value.

This advanced option also affects drawing windows. Use the advanced options `XS_MDIZOOMPARENT` and `XS_MDIBASICVIEWPARENT` to control connection and default views and zoom views.

See also  
| XS_MDIZOOMPARENT on page 209  
| XS_MDIBASICVIEWPARENT on page 208 |

**XS_MDIZOOMPARENT**

**Category**  
Model View

Set this advanced option to `TRUE` to allow zoom windows to be moved only within the Tekla Structures window.

Set this advanced option to `FALSE` (default) to allow zoom windows of views to be moved anywhere on the Windows desktop.

This advanced option is user-specific and the setting is saved in `options.bin` under user folder. Restart Tekla Structures to activate the new value.

**XS_MIN_DISTANCE_FOR_CONNECTING_SIDE_MARK**

**Category**  
Marking: General

Use this advanced option to set the minimum distance of the connecting part from the main part so that when the distance is larger than the value you enter, Tekla Structures draws a connecting side mark to show that there is a part farther away from the main part that is connected to the part. When the distance is smaller than the value you enter, no mark is drawn. The default value is 300 mm.
This advanced option is model-specific and the setting is saved in the options database.

See also

**XS_MIN_MERGE_PART_COUNT**

**Category**  Marking: Parts

Use to define the minimum number of identical parts whose marks to merge. The default value is 2.

This advanced option is model-specific and the setting is saved in the options database.

See also

**XS_MIN_NUMBER_OF_ASSEMBLY_MULTI_CHARACTERS**

**Category**  Numbering

Use to set the minimum number of characters in assembly multinumbers.

This advanced option is model-specific and the setting is saved in the options database.

**Example**  If you set this advanced option to 3, the multinumber format is 101AAA.
**XS_MIN_NUMBER_OF_PART_MULTI_CHARACTERS**

**Category** Numbering

Use to define the minimum number of characters in part multinationals.

This advanced option is model-specific and the setting is saved in the options database.

**Example** If you set this advanced option to 3, the multinumber format is 101AAA.

**XS_MIN_WELD_LINE_LENGTH**

**Category** Welds

Minimum length for weld mark reference line. If symbols and other data exceed the minimum length of weld mark reference line, weld mark reference line extends to contain all symbols and data. Enter the value in millimeters.

This advanced option is model-specific and the setting is saved in the options database.

**See also**

**XS_MIS_FILE_DIRECTORY**

**Category** CNC

Points to the folder where NC and MIS files are created. The default is the current model folder.

You can also enter folder as a relative path to the current model folder using the "\" characters in the Value field. If you set this advanced option to \NCFiles, Tekla Structures creates NC and MIS files in NC folder under the current model folder.

This advanced option is model-specific and the setting is saved in the options database.

**Example** c:\Program Files\Tekla Structures\mis-files

**XS_MIS_SEQUENCE**

**Category** Export

Use to enable sequences in EJE and KISS file type MIS exports.

Define which part property is used as the sequence information. The options are:

- **CLASS**
- **PHASE_NUMBER** (default)
- **PHASE_NAME**
UDA:USER_PHASE

The maximum lengths of the sequence information fields are 10 and 4 characters in KISS and EJE file types, respectively. Do not use long names for phase names or user phases, if you are using this information as MIS Sequence.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

XS_MODEL_PREFIX_INFLUENCES_MULTI_NUMBERING_FOR

Category: Numbering

Use to define whether part and assembly number prefixes affect the numbering of parts and assemblies in multidrawings. The options are NONE, ASSEMBLIES, PARTS and ASSEMBLIES_AND_PARTS. The value field is empty by default.

This advanced option is model-specific and the setting is saved in the options database.

XS_MODEL_TEMPLATE_DIRECTORY

Category: File Locations

Enter the path to the folder where Tekla Structures saves model templates. Only the templates saved in this folder are listed in the Model template list in the New dialog box.

By default, the model template folder is saved in your environment folder, for example, .. \ProgramData\Tekla Structures\<version>\environments \<environment>\model_templates.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

XS_MULTIDRAWING_KEEP_OBSOLETE_DRAWINGS

Category: Drawing Properties

Use this advanced option for controlling the views and multineumbers of deleted assemblies in multidrawings. Set this advanced option to TRUE to preserve the views of deleted parts and assemblies and to reserve the multineumbers of the deleted parts and assemblies. Set it to FALSE to reuse the multineumbers of the deleted assemblies and to delete the views. The default value is FALSE.

This advanced option is model-specific and the setting is saved in the options database.
XS_MULTIDRAWING_Remove_View_Label_Gap

Category  Drawing Properties

Set this advanced option to TRUE to remove unnecessary space between the drawing view label and the drawing view in multidrawings. If you do not want to do this, use FALSE (default).

This advanced option is model-specific and the setting is saved in the options database.

XS_Multi_Drawing_View_Placing_Trial_Number

Category  This advanced option can be set in initialization files.

Use to define the number of attempts to place the drawing views into a multidrawing. Enter an integer between 1 and 500. The advanced option is set to 500 by default.

XS_Multi_Drawing_View_Title

Category  Drawing properties

Use to define a title for a multidrawing view in a multidrawing. Arbitrary strings and switches (BASE_NAME and NAME) can be used for defining the title.

By default the title is defined as follows:

Drawing %DRAWING_BASE_NAME%

This advanced option is model-specific and the setting is saved in the options database.

XS_Multi_Numbering_Include_Assembly_Parts

Category  Numbering

Set this advanced option to TRUE to include single parts in multinumbering. If this advanced option is set to FALSE, single parts get multinoomers only if they are included in an assembly drawing.

The default value is FALSE.

This advanced option is model-specific and the setting is saved in the options database.
XS_MULTIPLIER_SEPARATOR_FOR_MERGED_PART_MARK

**Category** Marking: Parts

Use to define the separator in merged part marks. The default value is x.

This advanced option is model-specific and the setting is saved in the options database.

See also

2.14 N

XS_NC_DISABLE_PIECE_IDENTIFICATION_FIX

**Category** CNC

When set to TRUE (default), this advanced option disables the fix that was made in Tekla Structures 11.0 to DSTV format. The fix switched the places of phase and drawing identification in the DSTV file header to follow the DSTV standard better than before.

Because of this change, the dstv2dxf converter did not add correct texts to DXF files, and some CNC controller software will interpret the DSTV files incorrectly.

To enable the fix and create similar DSTV files as Tekla Structures 11.0, set this advanced option to FALSE.

This advanced option is model-specific and the setting is saved in the options database.

XS_NEIGHBOUR_PART_SKEW_LIMIT

**Category** Drawing Properties

Tekla Structures considers neighboring parts as skewed if the product of the vector multiplication (part axis) (any of the coordinate axis) is less than 1–XS_NEIGHBOUR_PART_SKEW_LIMIT. Enter the limit as a floating value, for example 0.1 (default).

This advanced option is model-specific and the setting is saved in the options database.

XS_NO_AUTO_DISPLAY_VIEWS

**Category** Model View
Set this advance option to TRUE to prevent Tekla Structures from displaying views automatically when you start the program. Set it to FALSE (default) to display the views automatically.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**XS_NO_BOLT_ANGLE_DIMENSIONS**

**Category** Dimensioning: Bolts

To create angle dimensions for bolts, set this advanced option to FALSE. To not create angle dimensions for bolts, select TRUE (default).

This advanced option is model-specific and the setting is saved in the options database.

**XS_NO_CHAMFERS_IN_EXACT_MODE**

**Category** Model view

Set this advanced option to TRUE to prevent Tekla Structures from creating chamfers in exact mode. To create the chamfers in exact mode, set it to FALSE.

By default chamfers are created. This advanced option only affects wire frame views.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

See also

**XS_NO_END_VIEWS_TO_INCLUDED_SINGLE_DRAWINGS**

**Category** Single Part View in Assembly Drawing

Set this advanced option to TRUE (default) to prevent Tekla Structures from creating end views when you create an assembly drawing and choose to include single-part drawings. If you do not want to do this, set it to FALSE.

If you do not enter a value, Tekla Structures creates end views based on the properties of the single-part drawings.

This advanced option is model-specific and the setting is saved in the options database.

**XS_NO_RELATIVE_SHAPE_DIMENSIONS**

**Category** Dimensioning: Parts
Set this advanced option to TRUE to force shape dimensions to be the same as the
dimension type you select.

By default, automatic shape dimensions are always relative regardless of the selected
dimension type.

This advanced option does not affect single-part drawings. To affect single part drawings, use
the advanced option XS_SINGLE_NO_RELATIVE_SHAPE_DIMENSIONS.

This advanced option is model-specific and the setting is saved in the options database.

See also  XS_SINGLE_NO_RELATIVE_SHAPE_DIMENSIONS on page 278

**XS_NO_SINGLE_PART_DRAWINGS_FOR**

**Category** Single Part View in Assembly Drawing

Set as follows to prevent Tekla Structures producing single part drawings for assemblies
containing one part:

XS_NO_SINGLE_PART_DRAWINGS_FOR=LOOSE_PARTS

This advanced option is model-specific and the setting is saved in the options database.

**XS_NO_UNFOLDING_LINES_TO_DRAWINGS**

**Category** Dimensioning: Unfolding

Use to define whether unfolding lines are shown in drawings. When you set the advanced
option to TRUE, the unfolding lines are not shown. The default is FALSE.

This advanced option is model-specific and the setting is saved in the options database.

**XS_NORTH_MARK_SCALE**

**Category** Marking: Parts

Use this advanced option to define the scale of the north mark symbol. By default, North
marks have a scale of 1:1. You can also create a larger symbol for north marks in the Symbol
editor.

This advanced option is model-specific and the setting is saved in the options database.

**XS_NORTH_MARK_SYMBOL**

**Category** Marking: Parts
By default the north mark symbol is number 32 in the symbol file NORTH.sym. Use this advanced option to change the symbol.

```
NORTH
```

This advanced option is model-specific and the setting is saved in the options database.

See also

**XS_NSFS_POSTFIX_FOR_MERGED_PART_MARK**

**Category** Marking: Parts

Use to define the postfix in merged part marks. This postfix is visible for identical parts on both side of a main part. The default value is BS.

This advanced option is model-specific and the setting is saved in the options database.

See also

**XS_NSFS_TEXT_POSITION_IN_PART_MARK**

**Category** Marking: Parts

Defines which element the NS, FS or BS text follows in merged part marks.

The default is 23, which means that the text is located after part position. If the type that is defined by the advanced option cannot be found in the mark at all, the text is located at end of the mark. To force the text to always appear at the end of the mark, use -1.

This advanced option is model-specific and the setting is saved in the options database.

The following list contains the corresponding integer values and elements in the mark:

- TEXT = 1
- LINE FEED = 2
- SYMBOL = 3
- FRAME START = 4
- FRAME END = 5
- MATERIAL = 10
- USER DEFINED ATTRIBUTE = 16
ASSEMBLY_POSITION = 22
PART_POSITION = 23
PROFILE = 24
NAME = 25
LENGTH = 26
CAMBER = 27
SIZE = 28
FITTINGS (NS/FS) = 29
CLASS = 38
BACK_SPACE = 46
GAGE OF OUTSTANDING LEG = 48
CENTER TO CENTER DISTANCE = 49
FACE_DIRECTION = 57
END OF Mark = -1

Example  XS_NSFS_TEXT_POSITION_IN_PART_MARK=22
The value 22 means after assembly position.

NS, FS and BS text itself comes from two separate places depending on if the marks are merged or not. For ordinary marks, the text comes from a file called by_number.ail (NS: by_number_msg_no_675, FS: by_number_msg_no_676). For merged marks, the text comes from the following advanced options:

- BS: XS_GET_NSFS_POSTFIX_FOR_MERGED_PART_MARK
- NS: XS_GET_NS_POSTFIX_FOR_MERGED_PART_MARK
- FS: XS_GET_FS_POSTFIX_FOR_MERGED_PART_MARK

XS_NS_POSTFIX_FOR_MERGED_PART_MARK

Category  Marking: Parts
Use to define the near side postfix in merged part marks. This postfix is visible for identical parts on near side. The default value is NS.

This advanced option is model-specific and the setting is saved in the options database.

See also  Alphabetical list of advanced options 218 N
**XS_NUMBERING_RESULTS_DIALOG_DISPLAY_TIME**

**Category** Numbering

Use to set the time frame within which Tekla Structures makes the second save when numbering when you have selected the **Synchronize with master model (save-numbering-save)** option in the **Numbering setup** dialog box.

Enter the desired time in seconds. The advanced option is set to 1500 by default.

This advanced option is model-specific and the setting is saved in the options database.

See also

**2.15 0**

**XS_OBJECT_SELECTION_CONFIRMATION**

**Category** Modeling Properties

Enter the time in milliseconds after which Tekla Structures prompts you to cancel object selection. You can cancel the object selection process if the selection takes longer than the defined time.

The default value is 5000.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

See also

**XS_OMIT_MARKS_OF_HIDDEN_PARTS_IN_GA_DRAWINGS**

**Category** Marking: Parts

Set this advanced option to **TRUE** to hide part marks of parts hidden by other parts from views in general arrangement drawings. The default value is **FALSE**.

If you have stiffeners on either side of a beam, one will be hidden by the beam in front of it. Set this advanced option to **TRUE** to prevent Tekla Structures from displaying the part mark of the hidden part.

This advanced option is model-specific and the setting is saved in the options database.

**XS_OMIT_MARKS_OF_PARTS_OUT_OF_VIEW_PLANE_LIMIT_ANGLE**

**Category** Marking: General
Use to hide the part marks for parts outside the current view plane by defining the limit for inclusion as an angle. The default value is 20.0.

You also need to set Parts out of view plane option in the view level Part mark properties dialog box to Not visible to hide parts from the views that are outside the angle you specify here.

This advanced option is model-specific and the setting is saved in the options database.

See also

**XS_OMITTED_BOLT_ASSEMBLY_TYPE**

**Category** Marking: Bolts

Use this advanced option to filter out the given type of bolt marks when the Bolt size limit field is used in drawing properties. The options are:

- SITE (default)
- SHOP
- SITE_AND_SHOP.

The default value SITE filters out only site bolt marks that are outside the bolt size limit, whereas workshop bolt marks of all sizes are shown in drawings.

This advanced option is model-specific and the setting is saved in the options database.

See also **XS_OMITTED_BOLT_TYPE** on page 220

**XS_OMITTED_BOLT_TYPE**

**Category** Marking: Bolts

Use this advanced option to define which bolt types to omit from drawings. Enter the name of the bolt standard, for example, 7990.

This advanced option is model-specific and the setting is saved in the options database.

See also **XS_OMITTED_BOLT_ASSEMBLY_TYPE** on page 220
**XS_OMITTED_DIAMETER_TYPE** on page 220
**XS_GA_OMITTED_DIAMETER_TYPE** on page 173

**XS_OMITTED_DIAMETER_TYPE**

**Category** Marking: Bolts
Use to define which diameter marks to omit in drawings. The options are HOLE or BOLT.

This advanced option is model-specific and the setting is saved in the options database.

**XS_OMITTED_BOLT_TYPE**

**Category** Components

Use to define which diameter marks to omit in drawings. The options are HOLE or BOLT.

This advanced option is model-specific and the setting is saved in the options database.

**Example**

If you want to define which diameter marks to omit in drawings, the options are HOLE or BOLT.

This advanced option is model-specific and the setting is saved in the options database.

See also [XS_OMITTED_BOLT_TYPE on page 220](#)

---

**XS_OMITTED_PART_NAME_IN_AUTOCONNECTION**

**Category** Components

Use to filter out specific part types when you use AutoConnection. AutoConnection cannot handle brace connections when large quantities of parts are selected.

This advanced option is model-specific and the setting is saved in the options database.

**Example**

If you want to use this advanced option to filter out brace parts, set it to brace. Tekla Structures does not select any parts with names containing the string “brace”.

You can also do this by setting the **Selection Filter** to select all parts except for those named “brace”.

See also [XS_OMITTED_PART_NAME_IN_AUTOCONNECTION on page 220](#)

---

**XS_OMITTED_WELD_TYPE**

**Category** Welds

Use to define which weld types to omit in drawings. Enter the number of the weld type you want to omit. The default value is 10 (fillet weld). For a list of weld types and the corresponding numbers, click the link in the See also list.

In addition to this advanced option there are two other settings that Tekla Structures uses to determine the welds that are shown in the drawing: XS_WELD_FILTER_TYPE tells if Tekla Structures should filter welds that are exactly (EXACT) the size or of the same size or smaller (MIN) than the value given in the **Weld size limit** box in the **Weld Properties** dialog box. Tekla Structures always shows welds that have reference text.

This advanced option is model-specific and the setting is saved in the options database.

**Example**

If you set XS_OMITTED_WELD_TYPE to 10, XS_WELD_FILTER_TYPE to EXACT, and **Weld size limit** to 5, Tekla Structures shows all other welds except those that are 5 mm, and those of type fillet weld (10). In this case, if you do not set XS_WELD_FILTER_TYPE, Tekla Structures shows all welds that are bigger than 5 mm except fillet welds.

See also [XS_OMITTED_WELD_TYPE on page 339](#)
**XS_OPEN_DRAWINGS_MAXIMIZED**

**Category**  Drawing View

Set to **TRUE** to maximize drawings when you open them. The default is **FALSE**.

This advanced option is user-specific and the setting is saved in **options.bin** under user folder. Restart Tekla Structures to activate the new value.

**XS_ORIENTATION_MARK_DIRECTION**

**Category**  Marking: parts

Use to define the direction of orientation marks. The options are **NORTH-EAST**, **NORTH-WEST**, **SOUTH-EAST** and **SOUTH-WEST**. **NORTH-EAST** is the default value.

This advanced option is model-specific and the setting is saved in the options database.

See also  **XS_NORTH_MARK_SYMBOL** on page 216

**XS_ORIENTATION_MARK_MOVE_DIST_FOR_BEAMS**

**Category**  Marking: parts

Use to indicate the position of orientation marks for beams. Enter a value indicating the distance from the end of the part to the orientation mark. The default value is 300.0 mm. You can enter any value in the range 1.0 to 3000.0.

This advanced option is model-specific and the setting is saved in the options database.

See also

**XS_ORIENTATION_MARK_MOVE_DIST_FOR_BEAMS_IN_GA**

**Category**  Marking: Parts

Indicates the position of beam orientation marks in GA drawings. Enter a value indicating the distance from the end of the part to the orientation mark. The default value is 300.0 mm.

This advanced option is model-specific and the setting is saved in the options database.

See also  **XS_ORIENTATION_MARK_MOVE_DIST_FOR_BEAMS** on page 222
**XS_ORIENTATION_MARK.Move.DIST.FOR.COLUMNS**

**Category** Marking: parts

Use to define the placing of orientation marks for columns. The value assigned to this advanced option is the distance from the end of the part to the orientation mark. The default value for columns is 300.0 mm. Possible values range from 1.0 to 3000.0.

This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.

**See also**

**XS_ORIENTATION_MARK.Move.DIST.FOR.COLUMNS.IN.GA**

**Category** Marking: Parts

Defines the position of column orientation marks in GA drawings. The value assigned to this advanced option is the distance from the end of the part to the orientation mark. The default value is 300.0 mm.

This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.

**See also** [XS_ORIENTATION_MARK.Move.DIST.FOR.COLUMNS on page 222](#)

2.16  P

**XS_PARAMETRIC_PROFILE_SEPARATOR**

**Category** Profiles

Use this advanced option to define an additional character to separate dimensions in the name of parametric profiles. Tekla Structures always recognizes the standard separator characters X, *, -, and /. The default value is an asterisk (*).

For example, when you inquire a part with a sketched profile, the character specified by this advanced option is used as the separator.

**Example**  

```
XS_PARAMETRIC_PROFILE_SEPARATOR=E
```

Acceptable profile names with this setting are:

1. PL500*800
2. PL500X800
3. PL500E800

Any combination of these is also accepted: ProfileName500*500-500*500E500
(the profile ProfileName should be defined).

Limitations

- Only one character is accepted as a value for this advanced option.
- You cannot use slash (/) in the US imperial environment.

See also XS_USER_DEFINED_PARAMETRIC_PROFILE_SEPARATORS on page 331

**XS_PART_DIMENSION_PLANES_TABLE**

**Category** Dimensioning: Parts

Use to indicate the path to the user-defined part dimension planes table. This table defines the planes in which dimensions are created. For example, you might want Tekla Structures to dimension round bars to the middle of the profile rather than the reference line.

You can also use a file name as a value. If the value is a file name, Tekla Structures searches for the file in the model, project, firm and profile folders (in this order).

This is a system-specific advanced option.

**Example**

```
XS_PART_DIMENSION_PLANES_TABLE=%XS_PROFDB%
dim_planes_table.txt
```

See also

**XS_PART_MERGE_MAX_DISTANCE**

**Category** Marking: Parts

Use to define the maximum distance within which identical parts get merged marks. Units are in millimeters. The default value is 1200.

This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.

See also

**XS_PART_MULTI_NUMBER_FORMAT_STRING**

**Category** Numbering

Use to define multinumbers for single parts. Use the following options to define the contents of part marks. Use as many switches as you need, and enclose each one in percent symbols (%).
The available options are:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>%PART_MULTI_DRAWING_NUMBER%</td>
<td>Multidrawing name.</td>
</tr>
<tr>
<td>%PART_MULTI_DRAWING_POS%</td>
<td>Position of the single-part drawing inside the multidrawing.</td>
</tr>
<tr>
<td>%PART_PREFIX%</td>
<td>Part prefix in the model.</td>
</tr>
<tr>
<td>%PART_POS%</td>
<td>Part position number in the model.</td>
</tr>
<tr>
<td>Template fields</td>
<td>Enter TPL: followed by the name of any relevant template field. Enclose each name in percent symbols (%). For example, %TPL:PROJECT.NUMBER%</td>
</tr>
<tr>
<td>User-defined attributes that are defined in the objects.inp file</td>
<td>Enter UDA: followed by the name of any relevant user-defined attribute, exactly as it appears in the objects.inp file. For example, %UDA:MY_INFO_1%</td>
</tr>
</tbody>
</table>

This advanced option is model-specific and the setting is saved in the options database.

**Example**

To put the part multi-numbers in the format part prefix + position on multidrawing + multidrawing name, set the advanced option as follows:

%PART_PREFIX%%PART_MULTI_DRAWING_POS%
%PART_MULTI_DRAWING_NUMBER%

**See also**

XS_ASSEMBLY_MULTI_NUMBER_FORMAT_STRING on page 43
XS_USE_MULTI_NUMBERING_FOR on page 318

**XS_PART_POSITION_NUMBER_FORMAT_STRING**

**Category**

**Numbering**

Use to have Tekla Structures use only letters in part numbers.

Enter any combination of the following options:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>%PART_PREFIX%</td>
<td>Part prefix, defined in the part properties dialog box.</td>
</tr>
<tr>
<td>%PART_POS%</td>
<td>Part position number, defined by the start number (from part properties dialog box) and the final position in that numbering series.</td>
</tr>
<tr>
<td>Option</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>%PART_POS_WITH_LETTERS %</td>
<td>Same as above, but with letters. Uses letters A – Z by default, but you can also define valid letters with the advanced option XS_VALID_CHARS_FOR_PART_POSITION_NUMBERS.</td>
</tr>
</tbody>
</table>

The position number/letter switch can also include a suffix defining the minimum number of digits (or letters), for example: %PART_POS.3%. This example results in a first part number of 001, second 002 etc.

This advanced option is model-specific and the setting is saved in the options database.

See also XS_VALID_CHARS_FOR_PART_POSITION_NUMBERS on page 333

**XS_PART_POSITION_TO_EDGE_NEAREST_TO_NEIGHBOUR**

**Category** Dimensioning: Parts

Set this advanced option to TRUE to dimension the position of parts to the edge that is nearest to the neighbor part. The default is FALSE.

![Diagram of part positioning](image)

This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.

**XS_PART_POSITION_TO_LEADING_EDGE**

**Category** Dimensioning: Parts
Set this advanced option to TRUE (default) to dimension the position of beams to the leading edge. If you do not want to do this, set it to FALSE. For this advanced option to take effect, disable the advanced option XS_USE_PLATE_SIDE_POSITIONING.

For column assemblies, you must also set the advanced option XS_PART_POSITION_TO_LEADING_EDGE_IN_COLUMNS_ALSO to TRUE.

This advanced option is model-specific and the setting is saved in the options database.

See also
- XS_PART_POSITION_TO_LEADING_EDGE_IN_COLUMNS_ALSO on page 227
- XS_USE_PLATE_SIDE_POSITIONING on page 326
- XS_USE_PLATE_SIDE_POSITIONING on page 326

**XS_PART_POSITION_TO_LEADING_EDGE_IN_COLUMNS_ALSO**

**Category** Dimensioning: Parts

To dimension part position to the leading edge for column assemblies, set this advanced option to TRUE. If you do not want to do this, set it to FALSE. The default value is TRUE.

You must also set the advanced option XS_PART_POSITION_TO_LEADING_EDGE on page 226 to TRUE.

This advanced option is model-specific and the setting is saved in the options database.

**XS PIXEL_TOLERANCE**

**Category** Model View

Use to define the snap zone of objects. Each object has a snap zone, which defines how close you need to pick to hit a position. When you pick within the snap zone of an object, Tekla Structures automatically snaps to the closest pickable point on that object. Enter the value in pixels. The default value is 10.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

See also

**XS PLANE_POINTS_ANGLE_LIMIT**

**Category** This advanced option can be set in initialization files.

If you have a very narrow and long grid, views along grid lines may be created incorrectly. Use this advanced option to define the limit of the angle between lines that pass through pairs of 3 points that define one plane. Use a small value (the minimum is 0.5). The default value is 1.0. The unit of the angle is degrees.
Enter the advanced option in the user.ini file as follows: set XS_PLANE_POINTS_ANGLE_LIMIT=0.5

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**XS_PLATE_ROUNDING_DECIMALS**

**Category** Plate Work

Use to define the maximum number of decimals in plate profile name created by components. The default is 1.

Note that unnecessary zeroes are always left off, for example 10.501:

- with 2 decimals is 10.5
- with 3 decimals is 10.501

This advanced option is model-specific and the setting is saved in the options database.

The advanced option XS_MAX_DECIMALS_IN_PROFILE_NAME controls decimals of plates that are modeled directly in the model.

See also  XS_MAX_DECIMALS_IN_PROFILE_NAME on page 206

**XS_PLOT_ORIGIN_MOVE_X**

**Category** This advanced option can be set in initialization files.

Offsets the print origin in the x direction. Use if a drawing does not fit to the paper or is printed to a wrong location. Enter the value in millimeters as an integer. This advanced option affects all printers. By default, this advanced option is not set to any value.

If you set these advanced options in your initialization files, you will override the Printer Catalog dialog box.

See also  XS_PLOT_ORIGIN_MOVE_Y on page 228

**XS_PLOT_ORIGIN_MOVE_Y**

**Category** This advanced option can be set in initialization files.
Offsets the print origin in the y direction. Use if a drawing does not fit to the paper or is printed to a wrong location. Enter the value in millimeters as an integer. This advanced option affects all printers. By default, this advanced option is not set to any value.

If you set these advanced options in your initialization files, you will override the Printer Catalog dialog box.

See also XS_PLOT_ORIGIN_MOVE_X on page 228

**XS_PLOT_UNPLOT_BUFFER_SIZE**

**Category** This advanced option can be set in initialization files.

This advance option is no longer recommended for customer use.

Use to improve the handling of large reference models, for example when moving large reference models that are split into reference model objects. Set this advanced option to match the number of objects in your largest reference model, rounded up to the closest thousand.

To find out the total number of objects, enable the Select objects in components selection switch and select all objects in the reference model. The amount of objects is shown in the bottom right corner of the Tekla Structures window.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**Example** For example, if your reference model has 119 115 objects, you should add the following line to the user.ini file:

```
set XS_PLOT_UNPLOT_BUFFER_SIZE=120000
```

**XS_PLOT_VIEW_FRAMES**

**Category** Printing

To show drawing view frames in printed and exported drawings, set XS_PLOT_VIEW_FRAMES to TRUE. FALSE is the default value.

This advanced option is model-specific and the setting is saved in the options database.
PML_ASSEMBLY_MARKS_IN_USE

Category Export
Set this advanced option to TRUE to have Tekla Structures use assembly marks in PML exports. By default this advanced option is set to FALSE, which means that Tekla Structures uses part marks.

This advanced option is model-specific and the setting is saved in the options database.

PML_CARDINAL_POINT_NOT_IN_USE

Category Export
Set this advanced option to TRUE to prevent Tekla Structures from using cardinal points in PML exports. This means that all parts will be defined by their center lines, and their position may differ from that in the Tekla Structures model. By default this advanced option is set to FALSE, which means that cardinal points are used in PML export. The default value is FALSE.

XS_PML_EXPORT_INCLUDE_GLOBAL_ID

Category Export
Set this advanced option to TRUE to revert to the FrameWorksPlus ID number in PML exports. If you do not want to export the ID number, set it to FALSE. The default value is FALSE.

This advanced option is model-specific and the setting is saved in the options database.

See also XS_SDNF_IMPORT_STORE_MEMBER_NUMBER on page 261

XS_PML_EXPORT_USE_ADDITIONAL_CUT_DIST

Category Export
Some earlier versions of Tekla Structures added 1 mm in length to fitted part ends in PML exports. Set this advanced option to TRUE to force recent versions to add the length. The default value is FALSE.

This advanced option is model-specific and the setting is saved in the options database.
**XS_POLYBEAM_CHORD_TOLERANCE**

**Category**  Speed and Accuracy

Use this advanced option to define the chord tolerance for curved polybeam sections. Enter the value in millimeters. The default is 1.0.

The advanced option `XS_POLYBEAM_MAX_ANGLE_BETWEEN_CS` works as limiting factor to `XS_POLYBEAM_CHORD_TOLERANCE` This advanced option is model-specific and the setting is saved in the options database.

**See also**  
`XS_POLYBEAM_MAX_ANGLE_BETWEEN_CS` on page 231  
`XS_CHORD_TOLERANCE_FOR_TUBE_SEGMENTS` on page 70

**XS_POLYBEAM_MAX_ANGLE_BETWEEN_CS**

**Category**  Speed and Accuracy

Use this advanced option to define the maximum angle between adjacent cross sections in curved polybeam sections. Enter the value in degrees. The default is 30.0.

This advanced option is model-specific and the setting is saved in the options database.

**XS_POLYBEAM_CURVATURE_TOLERANCE**

**Category**  Modeling Properties

Use to define the tolerance used in detecting the curvature between three points in a polybeam. The default is 2.0e-6.

This advanced option defines the difference in dot products between two unit vectors formed by two consecutive polybeam arc chamfer handles. If the dot product differs less than this value, the curve is considered to be a straight line, and the arc chamfer is omitted.

Generally, you need to change the default value only if you are working with long, thin or very complex polybeams. Change the default value in the following situations:

- If the polybeam is only very slightly curved and it looks like a straight polybeam in the model, you need to give a smaller value, such as 2.0e-10. A larger value makes polybeams with only a slight curvature straight.

- If the value is unnecessarily small (smaller than default value for simple polybeams), there might be performance issues.

- If the tolerance is set to a value that is too small (< e-11), the polybeam may break.
**XS_POLYGON_CUT_EXTRA_THICKNESS**

**Category**  Modeling properties

Use this advanced option to define the cut depth of a polygon cut, for example, to cut thick surface treatment. The default value for the cut thickness is 5.0 mm.

**XS_POLYGON_PERPENDICULAR_EDGE_PREFERENCE_FACTOR**

**Category**  Plate Work

This advanced option is used to artificially manipulate which side of a plate is considered as the 'longest'.

The longest side of polygon plates always faces downwards in drawings, which can affect plates with perpendicular edges.

This information can then be used, for example, in changing the rotation of a plate in drawings, or when choosing which side of a plate is to be considered the 'Length' and 'Width'.

This advanced option is used for plates with perpendicular sides in drawings. This advanced option rotates plates if there is some edge which is perpendicular to the current one and it is not adjacent edge.
The default value is 1.5.

In the example above, when you set `XS_POLYGON_PERPENDICULAR_EDGE_PREFERENCE_FACTOR` to 1, all sides are multiplied by 1, and view restriction box is drawn according to the longest side. The result is that the Length = 2715.02, and Width = 1046.94.

If you set this advanced option to 10, perpendicular corner edges A' and B' are multiplied by 10. If the result is larger than the longest side C', the view restriction box is drawn using the sides A' and B'. The result would be Length = 2353.55, and Width = 1353.55.

This advanced option is model-specific and the setting is saved in the options database.

See also `XS_POLYGON_SQUARE_CORNER_PREFERENCE_FACTOR` on page 233
XS_POLYGON_SQUARE_CORNER_PREFERENCE_FACTOR

Category Plate Work

This advanced option is used to artificially manipulate which side of a plate is considered as the 'longest'. In drawings, this advanced option is also used to control the rotation if right-angled plates. The longest side of polygon plates always faces downwards in drawings, which can affect right-angled plates.

This information can then be used, for example, in changing the rotation of a plate in drawings, or when choosing which side of a plate is to be considered the 'Length' and 'Width'.

This advanced option is used for plates that have two consecutive edges perpendicular to each other. When this advanced option is set to a factor, Tekla Structures multiplies the length of the side next to the right angle by that factor, making it the longest side. In reports, this side will be then considered the 'Length', and the corresponding perpendicular distance the 'Width'.

Alphabetical list of advanced options
Tekla Structures still uses and displays the real dimensions of the plate.

In the example above, when you set `XS_POLYGON_SQUARE_CORNER_PREFERENCE_FACTOR` to 1, all sides are multiplied by 1, and the view restriction box is drawn according to the longest side. The result is Length = 2715.02, and Width = 1173.35.

If you set this advanced option to 10, only square corner edges A and B are multiplied by 10. If the result is larger than the largest side C, the view restriction box is drawn using the sides A and B. The result would be Length = 2353.55, and Width = 1353.55.

The default value for this advanced option is 2.0.

This advanced option is model-specific and the setting is saved in the options database.

See also `XS_POLYGON_PERPENDICULAR_EDGE_PREFERENCE_FACTOR` on page 232
**XS_POP_MARK_COLOR**

**Category** Drawing Properties

Use to define the color of a customized pop-mark symbol that is displayed in a drawing. Enter an integer. The default value is 1 (white). Other possible values are:

<table>
<thead>
<tr>
<th>Value</th>
<th>Pop mark color</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Black</td>
</tr>
<tr>
<td>2</td>
<td>Red</td>
</tr>
<tr>
<td>3</td>
<td>Green</td>
</tr>
<tr>
<td>4</td>
<td>Blue</td>
</tr>
<tr>
<td>5</td>
<td>Cyan</td>
</tr>
<tr>
<td>6</td>
<td>Yellow</td>
</tr>
<tr>
<td>7</td>
<td>Magenta</td>
</tr>
</tbody>
</table>

This advanced option is model-specific and the setting is saved in the options database.

See also [XS_POP_MARK_SYMBOL on page 236](#)  
[XS_POP_MARK_HEIGHT on page 236](#)

**XS_POP_MARK_HEIGHT**

**Category** Drawing Properties

Use to define the height of a customized pop-mark symbol that is displayed in a drawing. Enter a decimal value in millimeters. The default is 2.0.

This advanced option is model-specific and the setting is saved in the options database.

See also [XS_POP_MARK_SYMBOL on page 236](#)  
[XS_POP_MARK_COLOR on page 235](#)

**XS_POP_MARK_SYMBOL**

**Category** Drawing Properties

Use to define the location of a customized pop-mark symbol that is displayed in a drawing. The default is xsteel@0.

This advanced option is model-specific and the setting is saved in the options database.

See also [XS_POP_MARK_HEIGHT on page 236](#)  
[XS_POP_MARK_COLOR on page 235](#)
**XS_POSITION_DIMENSIONS_FOR_HOLES_IN_SINGLE_SECONDARY_PARTS_IN_ASSEMBLY_DRAWING**

**Category:** Dimensioning: Bolts

To create position dimensions for holes in single secondary parts in assembly drawing, set this advanced option to TRUE. To not create position dimensions for holes, set it to FALSE. The default value is TRUE.

This advanced option is model-specific and the setting is saved in the options database.

**XS_POUR_BREAK_COLOR**

**Category:** Concrete Detailing

Use this advanced option to change the color of pour breaks in model views. Enter number as the value using the class numbers in the part properties dialog box to indicate the color. For example, if you set this advanced option to 6, Tekla Structures will color all pour breaks yellow. The default value is 59.

In the exported IFC models, pour breaks are black.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**See also** Color settings for parts

*XS_POUR_OBJECT_COLOR on page 238*

Pour management

**XS_POUR_BREAK_SYMBOL**

**Category:** Drawing Properties

Pour breaks are represented by a symbol in the drawings, see the image below. The symbol scale and the spacing between the symbols follows the drawing view scale automatically.

```
\[ // \ --- \ --- \ --- \ ---
\]

\[ \ --- \ --- \ --- \ --- \ --- \ --- \ --- \ --- \ --- \]
```
If you want to change the pour break symbol, enter a new value for this advanced option. The default value is PourBreaks@0. The symbol value starts with the symbol library file name and ends with the number of the symbol. The default library may contain many different pour break symbols. If you wish to use a symbol file that is not located under your environment folders, enter the complete path to the symbol file location and the symbol file name. This advanced option is model-specific and the setting is saved in the options database.

**XS_POUR_OBJECT_COLOR**

**Category** Concrete Detailing

Use this advanced option to change the default color of pour objects in model views. Enter number as the value using the class numbers in the part properties dialog box to indicate the color. For example, if you set this advanced option to 6, Tekla Structures will color all pour objects yellow. The default value is 110.

In the exported models, pour objects have the default value (110) and color (pink).

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**See also** Color settings for parts

XS_POUR_BREAK_COLOR on page 237

Pour management

**XS_PRIMARY_PART_FIRST**

This advanced option can be set in initialization files.

Set this advanced option to TRUE to sort part and assembly part lists in templates so that the main part of the assembly appears at the top of the list, immediately after the assembly.

This advanced option is needed in row rules, where rule is read after sorting.

If you add this advanced option to the options.ini file under the current model folder, you need to reopen the model to activate the new value. If it is set in another .ini file, you need to restart Tekla Structures.

**XS_PRINT_MULTISHEET_BORDER**

**Category** Drawing Properties
Use to define the borders that are left out from the smaller sheets when printing a drawing on multiple small sheets.

For example, to leave a 3 mm horizontal and a 5 mm vertical border, set the advanced option to 3,5.

**XS_PRINT_REPORT_FONT**

**Category** Templates and Symbols

Define the font for printed reports. Tekla Structures uses this advanced option if you do not specify another font for printed reports in the Print dialog box. The default value is Arial Narrow. If you do not enter a font, Tekla Structures uses the default font defined for XS_DEFAULT_FONT.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**XS_PRINT_REPORT_LINE_WIDTH_LANDSCAPE**

**Category** Templates and symbols

Use to specify the number of characters per row in reports printed in landscape orientation. The default value is 132.

This advanced option is model-specific and the setting is saved in the options database.

**See also**

- XS_PRINT_REPORT_LINE_WIDTH_PORTAIT on page 239
- XS_PRINT_REPORT_PAGE_HEIGHT_LANDSCAPE on page 240
- XS_PRINT_REPORT_PAGE_HEIGHT_PORTAIT on page 240

**XS_PRINT_REPORT_LINE_WIDTH_PORTAIT**

**Category** Templates and symbols

Use to specify the number of characters per row in reports printed in portrait orientation. The default value is 80.

This advanced option is model-specific and the setting is saved in the options database.

**See also**

- XS_PRINT_REPORT_LINE_WIDTH_LANDSCAPE on page 239
- XS_PRINT_REPORT_PAGE_HEIGHT_LANDSCAPE on page 240
- XS_PRINT_REPORT_PAGE_HEIGHT_PORTAIT on page 240
XS_PRINT_REPORT_PAGE_HEIGHT_LANDSCAPE

Category Templates and symbols

Use to specify the number of rows in printed reports with landscape orientation. The default value is 42.

This advanced option is model-specific and the setting is saved in the options database.

See also XS_PRINT_REPORT_LINE_WIDTH_LANDSCAPE on page 239
XS_PRINT_REPORT_LINE_WIDTH_PORTRAIT on page 239
XS_PRINT_REPORT_PAGE_HEIGHT_PORTRAIT on page 240

XS_PRINT_REPORT_PAGE_HEIGHT_PORTRAIT

Category Templates and symbols

Use to specify the number of rows in printed reports with portrait orientation. The default value is 62.

This advanced option is model-specific and the setting is saved in the options database.

See also XS_PRINT_REPORT_LINE_WIDTH_LANDSCAPE on page 239
XS_PRINT_REPORT_LINE_WIDTH_PORTRAIT on page 239
XS_PRINT_REPORT_PAGE_HEIGHT_LANDSCAPE on page 240

XS_PRODUCT_IDENTIFIER

Category Drawing View

To make it clear with which software a project has been modeled (old XSteel, other detailing systems or Tekla Structures) and reinforce the Tekla Structures brand, you can add a Tekla Structures product identifier to the side of every drawing. The product identifier will help promote the image of your company as a forward thinking company that uses the latest and most advanced technologies and techniques.

You can use the following values to change the position of the product identifier or turn it off: DX and DY offset (for example, 0.50), FALSE, and TRUE (default).

• If you do not want to use the product identifier, set this advanced option to FALSE.
• If you want to move it, enter values separated by a period (.) for both the X and Y directions.
  
  For example, -5.10 will move the text 5 pixels to the left and 10 pixels up.

This advanced option is model-specific and the setting is saved in the options database.
XS_PROFDB

Category  File Locations

Use to point to the profile folder which Tekla Structures searches for profile, material, device, and bolt catalogs.

You can store several catalogs in different locations, so it is important to know which catalog you are using.

This is a system-specific advanced option.

See also

XS_PROFILE_ANALYSIS_CHECK_ALL

Category  Analysis & Design

In the Profile Catalog dialog box, you can enter analysis values for each profile. In the analysis, the analysis applications that use the COM link calculate the analysis values and compare them to the values in the profile catalog. If the analysis application finds the values in the profile catalog, it uses the catalog values.

To check the profile catalog for analysis values for all profiles, enter TRUE for the following advanced options:

- XS_PROFILE_ANALYSIS_CHECK_ALL
- XS_AD_OPTIMISATION_DISABLED

After that, run the analysis.

The default value is FALSE.
If the profile catalog value differs significantly from the value the analysis application calculates, Tekla Structures writes a warning in the analysis log file. Use the advanced option XS_PROFILE_ANALYSIS_VALUE_DIFF_LIMIT to define the warning limit.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

See also  
XS_PROFILE_ANALYSIS_VALUE_DIFF_LIMIT on page 242  
XS_AD_OPTIMISATION_DISABLED on page 26

### XS_PROFILE_ANALYSIS_VALUE_DIFF_LIMIT

**Category** Analysis & Design

Sets the warning limit as a percentage when checking profile catalog analysis values. The default value is 5.5 (%).

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

See also  
XS_PROFILE_ANALYSIS_CHECK_ALL on page 241

### XS_PROFILE_DISPLAY_INCH_MARK_AFTER_FRACTIONS_IN_REPORTS

**Category** Imperial Units

Use to define the location of the inch mark in profile lengths in reports.

To display the inch mark after the fractions (for example, PL1”X18 1/2”), enter TRUE. To display the inch mark before the fractions (for example, PL1”X18”1/2), enter FALSE.

The inch mark is displayed after the fractions by default (TRUE).

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

See also  
XSR_SHOW_INCH_MARK_IN_PROFILE_NAMES on page 272

### XS_PROJECT

**Category** File Locations
This advanced option is only meant for administrators.

Set the advanced options XS_PROJECT and XS_FIRM, along with XS_SYSTEM, to point to the folders Tekla Structures searches for properties files. Tekla Structures always saves properties in the current model\attributes folder. You can then copy or move them to XS_FIRM or XS_PROJECT folders if same settings are needed in other models.

This advanced option is model-specific and the setting is saved in the options database.

Changing an advanced option value in .ini files located outside the model folder does not affect the existing models. You can only update advanced options in the Advanced Options dialog box or in the options.ini file located in model folder; not from an options.ini file located in folders defined for the advanced options XS_FIRM or XS_PROJECT. The .ini files are read also when you open an existing model, but only new advanced options that do not exist in options_model.db or options_drawings.db are inserted, for example, such options that are not yet in the Advanced Options dialog box but have been added in the software.

See also

**XS_PROTECT_SYMBOLS**

**Category** Drawing Properties

Set this advanced option to TRUE to prevent Tekla Structures from drawing objects on top of symbols. If you set it to FALSE, symbols are not protected. The default value is FALSE.

This advanced option is model-specific and the setting is saved in the options database.

**XS_RADIUS_TEXT_IN_UNFOLDING_BENDING_LINE_DIMENSIONING**

**Category** Dimensioning: unfolding

Use to set prefix text for radii. The default value is R=.

This advanced option is model-specific and the setting is saved in the options database.
XSR_BOLT_LENGTH_USE_ONLY_INCHES

Category  Templates and symbols

Set this advanced option to TRUE to prevent the advanced option
XSR_USE_ZERO_FEET_VALUE from affecting bolt length in bolt marks. If you want
XSR_USE_ZERO_FEET_VALUE to affect bolt length in bolt marks, set it to FALSE. The
default value is FALSE.

This advanced option is model-specific and the setting is saved in the options database.

See also  XSR_USE_ZERO_FEET_VALUE on page 259

XS_REBAR_BEND_MARK_SYMBOL_MIN_SIZE

Category  Concrete Detailing

Use to increase the size of the reinforcing bar bend symbols in drawings (in drawing units) in
order to see them more clearly. The default value is 1.

The value set for this advanced option is multiplied by the view scale. If the resulting value is
bigger than the default size (diameter of the reinforcing bar), then it will be used as the
symbol size. Otherwise the default value is used. This means that to make the symbol as
small as possible, leave the value out or use zero (0).

This advanced option can be used together with the advanced option
XS_REBAR_END_SYMBOL_MIN_SIZE, which is used for increasing the size of the
reinforcing bar end symbols.

This advanced option is model-specific and the setting is saved in the options database.
XS_REBAR_DIMENSION_LINE_SYMBOL

Category This advanced option can be set in initialization files. Add this advanced option in the options.ini file under model folder.

Use this advanced option to change the reinforcing bar group dimension (distribution) line symbol. You can create the dimension line by right-clicking the reinforcing bar group and selecting Create dimension line. The default value is xsteel@16, where xsteel is the name of the symbol file and 16 is the running number of the symbol.

See also

XS_REBAR_DIMENSION_MARK_MANUAL_CLOSE_TO_GEOMETRY

Category Concrete Detailing

Use to add closing dimensions to the edge of the part in reinforcing bar group dimensions. If you set this advanced option to TRUE, the closing dimensions are added.

This advanced option is model-specific and the setting is saved in the options database.

XS_REBAR_END_SYMBOL_MIN_SIZE

Category Concrete Detailing

Use to increase the size of the reinforcing bar end symbols in drawings (in drawing units) in order to see them more clearly. Works for 45 or 135 degree symbols. The default value is 2.

The value set for this advanced option is multiplied by the view scale. If the resulting value is bigger than the default size (diameter of the reinforcing bar), then it will be used as the
symbol size. Otherwise the default value is used. This means that to make the symbol as small as possible, leave the value out or use zero (0).

This advanced option can be used together with the advanced option XS_REBAR_BEND_MARK_SYMBOL_MIN_SIZE, which is used for increasing the size of the reinforcing bar bend symbols.

This advanced option is model-specific and the setting is saved in the options database.

See also

- XS_REBAR_REVERSE_END_SYMBOLS on page 248
- XS_REBAR_BEND_MARK_SYMBOL_MIN_SIZE on page 244

**XS_REBAR_MARK_LEADER_LINE_BASE_POINT_SEARCH_STEP_LENGTH**

Category: Concrete Detailing

Use to define the step length while searching for an optimal place for the mark leader line base point along the reinforcing bar. Enter the value in millimeters using decimals. The default value is 20.0.

This advanced option is model-specific and the setting is saved in the options database.
**Concrete Detailing**

Use to define how far the other reinforcing bars must be from the base point so that Tekla Structures can place the base point. Enter the value in millimeters using decimals. The default value is 10.0.

This advanced option is model-specific and the setting is saved in the options database.

**Numbering**

Use to define the contents of the reinforcing bar position numbers. You can also change or remove the separator and affect how many numbers are used to represent the reinforcing bar position number. If you change the value, you need to renumber the model.

Use the following options or a combination of them:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>%PART_PREFIX%</td>
<td>Reinforcing bar prefix, defined in the reinforcing bar properties dialog box.</td>
</tr>
<tr>
<td>%PART_POS%</td>
<td>Reinforcing bar position number, defined by the start number (in the reinforcing bar properties dialog box) and the final position in that numbering series.</td>
</tr>
<tr>
<td>%REBAR_SIZE%</td>
<td>Reinforcing bar size.</td>
</tr>
<tr>
<td>%REBAR_SIZE_NUMBR%</td>
<td>Reinforcing bar size without the # sign.</td>
</tr>
</tbody>
</table>

This advanced option is model-specific and the setting is saved in the options database.

**Example**

The Prefix field in the Reinforcing bar properties dialog box is set to R, and the Start No field is set to 0.

- If you set the advanced option to %PART_PREFIX%/%PART_POS.3%, the result for the first reinforcing bar will be R/001.
- If you set the advanced option to %REBAR_SIZE%REBAR_PREFIX%%REBAR_POS.3%, the result for the first reinforcing bar will be #6R001.
- If you set the advanced option to %REBAR_SIZE_NUMBER%REBAR_PREFIX%%REBAR_POS.3% and number the model, the result for the first reinforcing bar is 6R001.
XS_REBAR_PULLOUT_ANGLE_TEXT_FRAME

Category Concrete Detailing

Use to turn off the text frame around the angle text in pull-out pictures. By default, this advanced option is set to FALSE, and no frame is drawn. If you set this advanced option to TRUE, the frame is drawn.

If you have set XS_REBAR_PULLOUT_ANGLE_TEXT_UNDERLINE to TRUE, then the advanced option XS_REBAR_PULLOUT_ANGLE_TEXT_FRAME is ignored.

This advanced option is model-specific and the setting is saved in the options database.

See also XS_REBAR_PULLOUT_ANGLE_TEXT_UNDERLINE on page 248

XS_REBAR_PULLOUT_ANGLE_TEXT_UNDERLINE

Category Concrete Detailing

Set this advanced option to TRUE to draw an line under the angle text in pull-outs. If you set it to TRUE, then the advanced option XS_REBAR_PULLOUT_ANGLE_TEXT_FRAME is ignored. By default, this advanced option is set to FALSE, and no underline is drawn.

This advanced option is model-specific and the setting is saved in the options database.

See also XS_REBAR_PULLOUT_ANGLE_TEXT_FRAME on page 247

XS_REBAR_RECOGNITION_HOOKS_CONSIDERATION

Category Concrete Detailing

Set to FALSE to have Tekla Structures ignore hooks when it checks the shape of reinforcing bars, and to have Tekla Structures assign the same bending type to bars with and without hooks.

Set to TRUE to have Tekla Structures take the hooks into account and to treat bars with or without hooks, or with different hooks, as different.

The default value is TRUE.

This advanced option is model-specific and the setting is saved in the options database.

See also
**XS_REBAR_REVERSE_END_SYMBOLS**

**Category:** Concrete Detailing

Use to reverse the reinforcing bar end symbols to a different direction. When this advanced option is set to **TRUE**, the end symbol is drawn at 135 degree angle (used commonly in Norway). If you use single line visualization and no symbol at straight end, use the value **TRUEANDEXTEND**. If you use **TRUE** for these kinds of reinforcing bars, they will be drawn too short. The default value is **FALSE**.

This advanced option is role-specific. When the type **SYSTEM(ROLE)** is in use, the default value is used. When the type **MODEL(ROLE)** or **DRAWING(ROLE)** is in use, you can change the value, which is then the same for all users in the current model.

See also [XS_REBAR_END_SYMBOL_MIN_SIZE on page 245](#)

Reinforcement/Neighbor reinforcement and mesh properties in drawings

**XS_RECREATE_MARKS_IN_INTELLIGENT_CLONING**

**Category:** Marking: General

Set this advanced option to **ALL** to recreate all marks during intelligent cloning. If you leave the value out, marks are not recreated. By default, no value is set.

This advanced option is model-specific and the setting is saved in the options database.

**XS_RECREATE_UNMODIFIED_DRAWINGS**

**Category:** Drawing Properties

Use to define whether drawings are recreated when you update an assembly, single or cast unit drawing that has not been modified. Drawings are automatically recreated unless they have been edited and then saved, or they have been issued using the **Issue** functionality in the drawing list.

- To prevent the recreation of the unmodified drawings, set the advanced option **FALSE**.
- To allow the recreation of the unmodified drawings, set the advanced option to **TRUE**.

This is the default value.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**XS_REFERENCE_CACHE**

**Category:** File Locations
Use to define the default location of the cache file that is created from the source file when you load a reference model for the first time. The advanced option is set to `C:\TeklaStructuresModels\RefCacheFolders` by default. You can also replace the path with `%XS_RUNPATH%\RefCacheFolders` as follows:

- You may sometimes want to change the default location of the cache file when you are working with multi-user models to reduce network traffic and disk usage in the server or to speed up the cache operation (if the local drive is faster than the server drive).
- When you are using different versions of Tekla Structures for different projects and you experience problems with reference models, empty the folder where the reference cache is created. The cache file is recreated the next time you open the reference model.

This advanced option is user-specific and the setting is saved in `options.bin` under user folder. Restart Tekla Structures to activate the new value.

### XS_REFERENCE_MODEL_HIDDEN_LINE_TYPE

**Category** Drawing Properties

Use to choose the line type used to display the lines. The default value is 0 (no line). See the following table for information on the different line types.

This advanced option is model-specific and the setting is saved in the options database.

<table>
<thead>
<tr>
<th>Set advanced option to</th>
<th>Line type appearance</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>-----</td>
</tr>
<tr>
<td>2</td>
<td>-- --</td>
</tr>
<tr>
<td>3</td>
<td>-- --</td>
</tr>
<tr>
<td>4</td>
<td>-- --</td>
</tr>
<tr>
<td>5</td>
<td>--------</td>
</tr>
<tr>
<td>6</td>
<td>- - - -</td>
</tr>
<tr>
<td>7</td>
<td>- - - -</td>
</tr>
</tbody>
</table>

### XS_REFERENCE_MODEL_LINES_HIDDEN_BY_ITSELF

**Category** Drawing Properties

Alphabetical list of advanced options 250 R
Use to hide reference model lines if they are covered by the reference model itself. To hide
covered reference lines, enter TRUE. To display covered lines, enter FALSE (default).
This advanced option is model-specific and the setting is saved in the options database.

**XS_REFERENCE_MODEL_LINES_HIDDEN_BY_OTHER_REFERENCE_MODELS**

**Category** Drawing Properties

Use to hide reference model lines if they are covered by other reference models. To hide
covered reference model lines, enter TRUE. To display covered lines, enter FALSE (default).
This advanced option is model-specific and the setting is saved in the options database.

**XS_REFERENCE_MODELS_HIDE_PART_LINES**

**Category** Drawing Properties

Use to hide part lines if they are covered by reference models. To hide covered part lines,
enter TRUE. To display covered part lines, enter FALSE (default).
This advanced option is model-specific and the setting is saved in the options database.

**XS_REFERENCE_MODEL_LINES_HIDDEN_BY_PARTS**

**Category** Drawing Properties

Use to hide reference model lines if they are covered by Tekla Structures native model parts.
To hide covered reference model lines, enter TRUE (default). To display covered lines, enter
FALSE.
This advanced option is model-specific and the setting is saved in the options database.

**XS_REFERENCE_USE_RENDERED_CLIPPING**

**Category** Import

Set to TRUE to have Tekla Structures show only the center line of reference objects outside
the work area in rendered views. This can be useful, for example, when viewing cylindrical
DGN structures, such as piping. If you do not want to show only center line, set it to FALSE.
The default value is TRUE.

Tekla Structures then shows the objects as follows:
- Objects entirely inside work area are rendered.
• Objects entirely outside work area are hidden.
• Objects partly inside the work area are rendered inside work area, and wireframe outside work area.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**XS_REMEMBER_LAST_PLOT_DIALOG_VALUES**

**Category** Model View

This advanced option can be set in initialization files.

If you set this advanced option to **TRUE**, Tekla Structures remembers the latest settings that were used in the Print Drawings dialog box when you open the dialog box the next time. If you do not want to do this, enter **false**. The default value is **TRUE**.

**XS_RENDERED_CURSOR_LINE_WIDTH**

**Category** Model View

Use to set cursor line width in rendered views.

• Possible values are 1, 2, or 4. Any other value is handled as 1.
• The default value is 2.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

![Cursor line width of 1](image1)

![Cursor line width of 4](image2)

**XS_RENDERED_FIELD_OF_VIEW**

**Category** Model View
Use to adjust the field of view setting in perspective views. This can be useful, for example, when using the Fly command in a tight space. The bigger the value, the more distance there is between the parts.

The default value is 60.0.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

<table>
<thead>
<tr>
<th>Field of view</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>60.0</td>
<td><img src="60.0" alt="Example Image" /></td>
</tr>
<tr>
<td>90.0</td>
<td><img src="90.0" alt="Example Image" /></td>
</tr>
</tbody>
</table>
To adjust the field of view dynamically while moving around, add the following commands to the user-defined menu and assign a shortcut key for each command:

- Increase Field Of View
- Decrease Field Of View

See also

**XS_RENDERED_FOG_END_VALUE**

**Category** Model View

Use values from 0.0 to 1.0 to control the shade of objects. The higher the value, the darker the distant objects. Value 0 disables the fog effect. The default value is 0.50.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

See also **XS_RENDERED_FOG_START_VALUE** on page 254

**XS_RENDERED_FOG_START_VALUE**

**Category** Model View
In rendered views distant objects appear progressively darker than the close ones. Use the advanced options `XS_RENDERED_FOG_START_VALUE` and `XS_RENDERED_FOG_END_VALUE` to control the shade of objects.

Use values from 0.0 to 1.0 to control the shade of objects. The higher the value, the darker the distant objects. Value 0 disables the fog effect. The default value for `XS_RENDERED_FOG_START_VALUE` is 0.25.

![Advanced options set to zero](image1.png)

![Advanced options set](image2.png)

1. Advanced options set to zero
2. Advanced options set

This advanced option is user-specific and the setting is saved in `options.bin` under user folder. Restart Tekla Structures to activate the new value.

**XS_RENDERED_PIXEL_TOLERANCE_SCALE**

**Category** Model View

Tekla Structures uses pixel tolerance to differentiate between clicking and dragging the mouse when zooming. Use this advanced option to define the pixel tolerance.

The default value is 0.7. If the mouse moves less than the specified value while the left mouse button is pressed down, it is treated as a click.

This is a system-specific advanced option.

**XS_REPORT_OUTPUT_DIRECTORY**

**Category** File locations

Points to the folder where Tekla Structures saves reports. If the full path appears in the report file name field, Tekla Structures ignores this setting. The default value is `.Reports`.
**XS_RESTORE_ENABLES**

**Category** This advanced option can be set in initialization files.

Set this advanced option to **TRUE** to be able to save and load check box values in dialog boxes. **FALSE** is the default value.

**See also**

**XS_ROTATE_CUT_VIEWS**

**Category** Drawing View

Use to specify the rotation of section views.

**BY_SYMBOL_MAIN_VIEW** (default) uses the orientation of the view that contains the section symbol. This only applies to section views that Tekla Structures creates automatically. Manually-created views have the same rotation as the view they are created from.

**BY_MAIN_VIEW** uses the same orientation as the main view.
This advanced option is model-specific and the setting is saved in the options database.

**XS_RUN_AT_STARTUP**

**Category**  File Locations

Tekla Structures will automatically launch any executable (.exe) files that are located in the folder defined for this advanced option. By default, this advanced option is set to .. \Tekla Structures\<version>\nt\bin\applications\Tekla \ApplicationStartup.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**XS_RUNPATH**

**Category**  This advanced option can be set in initialization files.

This advanced option is system-specific and is read from teklastructures.ini. Generally, there is no need to modify system-specific settings. Do not modify them if you are not an administrator.

This advanced option points to the folder where Tekla Structures searches for models by default. When you open the New dialog box, the default model folder is displayed in the Save in list.
This advanced option does not affect the **Open** dialog box.

This advanced option is model-specific and the setting is saved in the options database.

**Example**

```plaintext
set XS_RUNPATH=C:\TeklaStructuresModels\n```

### XSR_USE_NO_FEET_SEPARATOR

**Category** Templates and Symbols

Set this advanced option to **TRUE** to use a space instead of the feet separator in drawing tables and reports, for example, 2 4"1/4. To use the feet separator, use the value **FALSE**. The default value is **FALSE**.

You also need to set **XSR_USE_NO_FEET_SYMBOL**.

This advanced option is model-specific and the setting is saved in the options database.

**See also** **XSR_USE_NO_FEET_SYMBOL** on page 258

### XSR_USE_NO_FEET_SYMBOL

**Category** Templates and Symbols

Set this advanced option to **TRUE** to omit the feet symbol in drawing tables and reports, for example, 2-4"1/4. If you do not want to omit the feet symbol, use the value **FALSE**. The default value is **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.

### XSR_USE_NO_INCH_SYMBOL

**Category** Templates and Symbols

Set this advanced option to **TRUE** to omit the inch symbol in drawing tables and reports, for example, 2-4 ¼. If you do not want to omit the inch symbol, use the value **FALSE**. The default value is **FALSE**.

You also need to set **XSR_USE_NO_FEET_SYMBOL** and **XSR_USE_NO_FEET_SEPARATOR**.

This advanced option is model-specific and the setting is saved in the options database.
XSR_USE_ZERO_FEET_VALUE

Category Templates and Symbols

Set this advanced option to TRUE to force Tekla Structures to show zero feet for values less one foot, for example, 0'-6''3/4. If you do not want to show zero feet values, use the value FALSE. The default value is FALSE.

Setting this advanced option affects also the following:

- Length values in part and bolt marks
- Length values in templates (template attribute LENGTH)

This advanced option is model-specific and the setting is saved in the options database.

See also XSR_BOLT_LENGTH_USE_ONLY_INCHES on page 244

XSR_USE_ZERO_INCH_FOR_FRACTIONS

Category Templates and Symbols

Set this advanced option to TRUE to show zero inches for values only containing fractions, for example, 2'-3/4 or 0"1/4. If you do not want to do this, use the value FALSE. The default value is FALSE.

This advanced option is model-specific and the setting is saved in the options database.

See also

XSR_USE_ZERO_INCH_VALUE

Category Templates and Symbols

Set this advanced option to TRUE to show zero inches for values only containing feet and fractions, for example, 2'-0"3/4 or 1/4. If you do not want to do this, use the value FALSE. The default value is FALSE.

This advanced option is model-specific and the setting is saved in the options database.
XS_SAVE_WITH_COMMENT

Category Multi-user

Set this advanced option to TRUE (default) to enable the saving of model revision comments in multi-user models.

See also

XS_SCALE_COPIED_OR_MOVED_OBJECTS_IN_DRAWINGS

Category Drawing Properties

Use to define the scaling of objects that are copied or moved between drawing views that have different scales.

- To scale the objects according to the view scales, set the advanced option to TRUE.
- To keep the object sizes constant, set the advanced option to FALSE (default).

This advanced option is model-specific and the setting is saved in the options database.

XS_SCALE_MARKS_TO_FIT_LIMIT

Category Marking: Parts

Tekla Structures fits part marks near the part they belong to by scaling the text height. Set the minimum scale with this advanced option.

The default value is 1.0. This means that if you do not set the advanced option, Tekla Structures does not scale marks. Tekla Structures scales the text height in steps so that first it tries the scale of 0.9. If the mark does not fit, Tekla Structures scales the mark by 0.8, and so on.

Note that part mark’s leader line type has to be either Try along part or Always along part.

This advanced option is model-specific and the setting is saved in the options database.

Example XS_SCALE_MARKS_TO_FIT_LIMIT=0.5

XS_SCREW_DIAMOND_WITHOUT_PHI

Category Marking: Bolts
Set this advanced option to TRUE to prevent Tekla Structures from placing a phi symbol outside the frame of bolt marks (diamond type only). The default value is FALSE.

This advanced option is model-specific and the setting is saved in the options database.

**XS_SDNF_CONVERT_PL_PROFILE_TO_PLATE**

**Category** Export

Set this advanced option to TRUE to have SDNF exports convert plate profiles (PL) to contour plates. Works with SDNF versions 2.0 and 3.0. If you do not want to use this setting, Set it to FALSE. The default value is TRUE.

This advanced option is model-specific and the setting is saved in the options database.

**XS_SDNF_EXPORT_INCLUDE_GLOBAL_ID**

**Category** Export

Set this advanced option to TRUE to revert to the FrameWorksPlus ID number in SDNF exports. The default value is FALSE.

This advanced option only affects version 2.0 SDNF export, but not version 3.0 export. This advanced option is model-specific and the setting is saved in the options database.

**See also** XS_SDNF_IMPORT_STORE_MEMBERNUMBER on page 261

**XS_SDNF_IMPORT_MIRROR_SWAP_OFFSETS**

**Category** Import

Set this advanced option to TRUE to swap the end point offsets and start point offsets when an imported part is mirrored already in the SDNF software. If you set this advanced option to FALSE, the end point and start point offsets are not swapped. The default value is TRUE.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**XS_SDNF_IMPORT_STORE_MEMBER_NUMBER**

**Category** Import
Set this advanced option to **TRUE** to have Tekla Structures store the FrameWorksPlus ID number in SDNF imports. Tekla Structures stores the ID number in the user-defined attribute `SDNF_MEMBER_NUMBER`. If you do not want to do this, set the option to **FALSE**. The default value is **TRUE**.

This advanced option is model-specific and the setting is saved in the options database.

For information on exporting the ID number, click the links below.

**See also**  
[XS_SDNF_EXPORT_INCLUDE_GLOBAL_ID on page 261](#)  
[XS_PML_EXPORT_INCLUDE_GLOBAL_ID on page 230](#)

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**XS_SECONgARY_PART_HARDSTAMP**

**Category**  
**CNC**

Set to **TRUE** to include hard stamps for main parts and any kind of secondary parts in DSTV files. Set to **FALSE** to create hard stamps only for main parts. The default value is **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.

---

**XS_SECTION_LINE_COLOR**

**Category**  
**Hatching**

Use to add extra lines in different colors around automatic hatching in section views. Enter the numeric value for the color. See below for the colors and their numeric values.

<table>
<thead>
<tr>
<th>Color</th>
<th>Numeric Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td>152</td>
</tr>
<tr>
<td>Dark Red</td>
<td>153</td>
</tr>
<tr>
<td>Red</td>
<td>160</td>
</tr>
<tr>
<td>Green</td>
<td>161</td>
</tr>
<tr>
<td>Blue</td>
<td>162</td>
</tr>
<tr>
<td>Cyan</td>
<td>163</td>
</tr>
<tr>
<td>Yellow</td>
<td>164</td>
</tr>
<tr>
<td>Orange</td>
<td>165</td>
</tr>
<tr>
<td>Brown</td>
<td>154</td>
</tr>
<tr>
<td>Gray</td>
<td>155</td>
</tr>
<tr>
<td>Light Blue</td>
<td>156</td>
</tr>
<tr>
<td>Teal</td>
<td>157</td>
</tr>
<tr>
<td>Gray</td>
<td>158</td>
</tr>
<tr>
<td>Light Gray</td>
<td>159</td>
</tr>
</tbody>
</table>

This advanced option is model-specific and the setting is saved in the options database.
To show lines around hatching, and to be able to add extra lines in different colors, you may need to set advanced option XS_DRAW_ALL_SECTION_EDGES_IN_DRAWINGS to TRUE in the initialization files.

See also  XS_DRAW_ALL_SECTION_EDGES_IN_DRAWINGS on page 113

**XS_SECTION_SYMBOL_LEFT_ARROW_SYMBOL**

**Category** Drawing Properties

Use to define the custom arrow symbol Tekla Structures uses in section symbols at the left end of sections. To use the custom arrow symbol, select Custom from the Left symbol list in the Section symbol properties dialog box.

By default, Tekla Structures uses the symbol no 1 in the sections.sym file (located usually in the folder \environments\common\symbols\). If you want to change the symbol, enter the symbol file name first, then the @ sign and then the number of the symbol, for example sections@1.

This advanced option is model-specific and the setting is saved in the options database.

See also  XS_SECTION_SYMBOL_RIGHT_ARROW_SYMBOL on page 264

Setting automatic section view properties

Modifying section properties

**XS_SECTION_SYMBOL_REFERENCE**

**Category** Drawing Properties

Sets the reference text for symbols that show a section in another drawing. The text can include:

- free text
- user-defined attributes
- template attributes

In the Advanced options dialog box, use single % characters around the user-defined and template attributes. %DRAWING_TITLE% is the default value. %TITLE% gives the same result. This advanced option gets the drawing name entered in the drawing properties dialog box. If you enter TITLE1 - TITLE3, Tekla Structures gets the drawing title from the drawing properties dialog box. You can also use the format DR_TITLE1 - DR_TITLE3.
XS_SECTION_SYMBOL_RIGHT_ARROW_SYMBOL

Category: Drawing properties

Use to define the custom arrow symbol Tekla Structures uses in section symbols at the right end of sections. To use the custom arrow symbol, select Custom from the Right symbol list in the Section symbol properties dialog box.

By default Tekla Structures uses the symbol no 0 in the sections.sym file (located usually in the folder \environments\common\symbols\). Enter the symbol file name first, then the @ sign and then the number of the symbol, for example sections@0.

This advanced option is model-specific and the setting is saved in the options database.

See also
- XS_SECTION_SYMBOL_LEFT_ARROW_SYMBOL on page 263
- Setting automatic section view properties
- Modifying section properties

XS_SECTION_VIEW_REFERENCE

Category: Drawing Properties

Sets the reference text for section view labels. The text can include:

- free text
- user-defined attributes
- template attributes
In the **Advanced options** dialog box, use single % characters around the user-defined and template attributes. %DRAWING_TITLE% is the default value. %TITLE% gives the same result. This advanced option gets the drawing name entered in the drawing properties dialog box. If you enter TITLE1 - TITLE3, Tekla Structures gets the drawing title from the drawing properties dialog box. You can also use the format DR_TITLE1 - DR_TITLE3.

![General arrangement drawing properties](image)

This advanced option is model-specific and the setting is saved in the options database.

**See also**

[XS_SECTION_SYMBOL_REFERENCE on page 263](#)

**XS_SHARING_JOIN_SHOW_AVAILABLE_UPDATES**

We recommend you to set this advanced option in the **File --> Sharing --> Settings** dialog box using the **Show available updates when joining the model** option.

Use to show a list of all the available baselines and updates which to join in Tekla Model Sharing. The list is shown when a user joins a model.

If needed, the advanced option can also be set in initialization files. Set **XS_SHARING_JOIN_SHOW_AVAILABLE_UPDATES** to TRUE in initialization files to enable the list.

This advanced option is user-specific.
**XS_SHARING_READIN_SHOW_AVAILABLE_VERSIONS**

We recommend you to set this advanced option in the File --> Sharing --> Settings dialog box using the Show available updates when reading in the changes option.

Use to show a list of all the available baselines and updates in Tekla Model Sharing. The list is shown when a user reads in the model changes.

If needed, the advanced option can also be set in initialization files. Set XS_SHARING_READIN_SHOW_AVAILABLE_VERSIONS to TRUE in initialization files to enable the list.

This advanced option is user-specific.

---

**XS_SHOP_BOLT_MARK_STRING_FOR_SIZE**

**Category**  
Marking: Bolts

Use to define the contents of the Size element in bolt marks (workshop). The default value is 
\%
BOLT_NUMBER\%*D\%HOLE.DIAMETER\% - M\%DIAMETER\%x\%LENGTH\%.

You can use any combination of text and the following options as the value for this advanced option. Enclose each option in % characters. To use special characters enter a backslash (\) followed by an ASCII number. You can use the options in any order, and make calculations.

- BOLT_NUMBER
- DIAMETER
- LENGTH
- HOLE.DIAMETER
- LONG_HOLE_X
- LONG_HOLE_Y
- LONGHOLE_MIN (the shorter of the slotted hole dimensions)
- LONGHOLE_MAX (the longer of the slotted hole dimensions)
- BOLT_STANDARD
- BOLT_MATERIAL
- BOLT_ASSEMBLY_TYPE
- BOLT_COUNTERSUNK
- BOLT_SHORT_NAME
**BOLT_FULL_NAME**

This advanced option is model-specific and the setting is saved in the options database.

**See also** Defining contents of bolt mark Size element using advanced options...

**XS_SHOP_BOLT_MARK_STRING_FOR_SIZE_IN_GA**

**Category** Marking: Bolts

Use to define the contents of the size element in bolt marks for workshop bolts in general arrangement drawings.

You can use any combination of text and the following options as the value for this advanced option. Enclose each option in % characters. To use special characters enter a backslash (\) followed by an ASCII number. You can use the options in any order, and make calculations.

- BOLT_NUMBER
- DIAMETER
- LENGTH
- HOLE.DIAMETER
- LONG_HOLE_X
- LONG_HOLE_Y
- LONGHOLE_MIN (the shorter of the slotted hole dimensions)
- LONGHOLE_MAX (the longer of the slotted hole dimensions)
- BOLT_STANDARD
- BOLT_MATERIAL
- BOLT_ASSEMBLY_TYPE
- BOLT_COUNTERSUNK
- BOLT_SHORT_NAME
- BOLT_FULL_NAME

This advanced option is model-specific and the setting is saved in the options database.

**See also**

- XS_SHOP_HOLE_MARK_STRING_FOR_SIZE_IN_GA on page 268
- XS_SHOP_LONGHOLE_MARK_STRING_FOR_SIZE_IN_GA on page 270
XS_SHOP_HOLE_MARK_STRING_FOR_SIZE

Category Marking: Bolts

Use to define the contents of the Size element in hole marks (workshop). For example, to show bolt number and hole diameter, enter \%BOLT_NUMBER\%*D\%HOLE\|.DIAMETER\%.

You can use any combination of text and the following options as the value for this advanced option. Enclose each option in \% characters. To use special characters enter a backslash (\) followed by an ASCII number. You can use the options in any order, and make calculations.

- BOLT_NUMBER
- DIAMETER
- LENGTH
- HOLE.DIAMETER
- LONG_HOLE_X
- LONG_HOLE_Y
- LONGHOLE_MIN (the shorter of the slotted hole dimensions)
- LONGHOLE_MAX (the longer of the slotted hole dimensions)
- BOLT_STANDARD
- BOLT_MATERIAL
- BOLT_ASSEMBLY_TYPE
- BOLT_COUNTERSUNK
- BOLT_SHORT_NAME
- BOLT_FULL_NAME

This advanced option is model-specific and the setting is saved in the options database.

See also

XS_SHOP_HOLE_MARK_STRING_FOR_SIZE_IN_GA

Category Marking: Bolts

Use to define the contents of the size element in hole marks for workshop bolts in general arrangement drawings.

You can use any combination of text and the following options as the value for this advanced option. Enclose each option in \% characters. To use special characters enter a backslash (\) followed by an ASCII number. You can use the options in any order, and make calculations.

- BOLT_NUMBER
- DIAMETER
- LENGTH
• HOLE.DIAMETER
• LONG_HOLE_X
• LONG_HOLE_Y
• LONGHOLE_MIN (the shorter of the slotted hole dimensions)
• LONGHOLE_MAX (the longer of the slotted hole dimensions)
• BOLT_STANDARD
• BOLT_MATERIAL
• BOLT_ASSEMBLY_TYPE
• BOLT_COUNTERSUNK
• BOLT_SHORT_NAME
• BOLT_FULL_NAME

This advanced option is model-specific and the setting is saved in the options database.

See also
XS_SHOP_BOLT_MARK_STRING_FOR_SIZE_IN_GA on page 267
XS_SHOP_LONGHOLE_MARK_STRING_FOR_SIZE_IN_GA on page 270

XS_SHOP_LONGHOLE_MARK_STRING_FOR_SIZE

Category Marking: Bolts

Use to define the contents of the Size element in slotted hole marks (workshop). The default value is %BOLT_NUMBER%*D%HOLE.DIAMETER%(%HOLE.DIAMETER +LONG_HOLE_X%x%HOLE.DIAMETER+LONG_HOLE_Y%) - M%DIA%TER%x %LENGTH%.

You can use any combination of text and the following options as the value for this advanced option. Enclose each option in % characters. To use special characters enter a backslash (\) followed by an ASCII number. You can use the options in any order, and make calculations.

• BOLT_NUMBER
• DIAMETER
• LENGTH
• HOLE.DIAMETER
• LONG_HOLE_X
• LONG_HOLE_Y
• LONGHOLE_MIN (the shorter of the slotted hole dimensions)
• LONGHOLE_MAX (the longer of the slotted hole dimensions)
• BOLT_STANDARD
• BOLT_MATERIAL
• BOLT_ASSEMBLY_TYPE
• BOLT_COUNTERSUNK
• BOLT_SHORT_NAME
• BOLT_FULL_NAME

This advanced option is model-specific and the setting is saved in the options database.

See also

**XS_SHOP_LONGHOLE_MARK_STRING_FOR_SIZE_IN_GA**

**Category** Marking: Bolts

Use to define the contents of the size element in longhole marks for workshop bolts in general arrangement drawings.

You can use any combination of text and the following options as the value for this advanced option. Enclose each option in % characters. To use special characters enter a backslash (\) followed by an ASCII number. You can use the options in any order, and make calculations.

• BOLT_NUMBER
• DIAMETER
• LENGTH
• HOLE_DIAMETER
• LONG_HOLE_X
• LONG_HOLE_Y
• LONGHOLE_MIN (the shorter of the slotted hole dimensions)
• LONGHOLE_MAX (the longer of the slotted hole dimensions)
• BOLT_STANDARD
• BOLT_MATERIAL
• BOLT_ASSEMBLY_TYPE
• BOLT_COUNTERSUNK
• BOLT_SHORT_NAME
• BOLT_FULL_NAME

This advanced option is model-specific and the setting is saved in the options database.

See also
**XS_SHORTENING_SYMBOL_COLOR**

**Category**  Drawing Properties  

Use this advanced option to set the color of the view shortening symbol. Enter an integer value. Default is the same as the part color. See below for integers for different colors.

- 153
- 160
- 161
- 162
- 163
- 164
- 165
- 154
- 155
- 156
- 157
- 158
- 159

This advanced option is model-specific and the setting is saved in the options database.

**See also**

**XS_SHORTENING_SYMBOL_LINE_TYPE**

**Category**  Drawing Properties  

Use this advanced option to set the line type of the view shortening symbol. Enter an integer value. Default is a solid line. See below for integer values for different line types.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 |

This advanced option is model-specific and the setting is saved in the options database.

**See also**

**XS_SHORTENING_SYMBOL_WITH_ZIGZAG**

**Category**  Drawing Properties  

Use this advanced option to set the shortening symbol line shape. If you do not want to use zigzag, set this advanced option to **FALSE**. **TRUE** is the default.

This advanced option is model-specific and the setting is saved in the options database.
XSR_SHOW_INCH_MARK_IN_PROFILE_NAMES

Category  Templates and Symbols

Use to show or hide the inch symbol in the profile name in reports and templates. When you set the advanced option to TRUE, the profile appears like this: PL2 1/2”X20”. When you set the advanced option to FALSE, the profile appears like this: PL2 1/2X20. The default value is TRUE.

This advanced option is model-specific and the setting is saved in the options database.

See also  XSPROFILE_DISPLAY_INCH_MARK_AFTER_FRACTIONS_IN_REPORTSON page 242

XS_SHOW_NOTIFICATION_REPORT

Category  Modeling Properties

Set to TRUE to display a notification report of assignments when you open a model. The report lists assignments on all objects (drawings, parts and assemblies).

If you do not want to display the notification report upon opening a model, set the advanced option to FALSE, which is the default value.

This advanced option is model-specific and the setting is saved in the options database.

XS_SHOW_PERFORM_NUMBERING_MESSAGE

Category  Numbering

Use to show or hide the Perform numbering button in the warning message Tekla Structures displays if you try to create a drawing without numbering or when numbering is not up to date.

• By default, this advanced option is set to TRUE and the numbering button is shown.
• To hide the button, set this advanced option to FALSE.

Consider hiding the numbering button in the multi-user mode, because unnecessary or unplanned numbering may take a while in large models or break project numbering. This can occur if Synchronize with master model (save-numbering-save) check box is not selected in the Numbering setup dialog box.

This advanced option is model-specific and the setting is saved in the options database.

See also
XS_SHOW_PROGRESS_BAR_FOR_PROJECT_STATUS_VISUALIZATION

Category  Model View
Use for defining whether the progress bar for project status visualization is displayed or not.
To display the progress bar, set this advanced option to TRUE (default). If you do not want to
display the progress bar, set this advanced option to FALSE.
This advanced option is user-specific and the setting is saved in options.bin under user
folder. Restart Tekla Structures to activate the new value.

XS_SHOW_REFERENCE_MODEL_HIDDEN_LINES

Category  Drawing Properties
Use to display or hide the hidden lines of reference models in drawings. When you set the
advanced option to TRUE (default), reference model lines are never hidden by other objects.
To hide hidden lines, enter FALSE.
This advanced option is model-specific and the setting is saved in the options database.
See also  XS_REFERENCE_MODEL_HIDDEN_LINE_TYPE on page 250
XSREFERENCEMODEL_LINES_HIDDEN_BY_ITSELF on page 250
XSREFERENCEMODEL_LINES_HIDDEN_BY_OTHERREFERENCEMODELS on page 251
XSREFERENCEMODEL_LINES_HIDDEN_BY_PARTS on page 251
XSREFERENCEMODELS_HIDE_PART_LINES on page 251

XS_SHOW_REVISION_MARK_ON_DRAWING_LIST

Category  Drawing Properties
Set this advanced option to TRUE to have Tekla Structures include the Revision mark in the
Tekla Structures drawing list instead of the Revision number. The default value is FALSE.
This means that the revision number is shown.
This advanced option is user-specific and the setting is saved in options.bin under user
folder. Restart Tekla Structures to activate the new value.

XS_SHOW_SITE_STUDS_IN_ASSEMBLY_DRAWINGS

Category  Drawing Properties
Set this advanced option to TRUE (default) to show site studs in assembly drawings. If you set it to FALSE, the site studs are not shown.

This advanced option is model-specific and the setting is saved in the options database.

**XS_SHOW_STUDS_IN_WORKSHOP_DRAWINGS**

**Category** Drawing Properties

Set this advanced option to TRUE to show workshop studs in single-part drawings. The default value is FALSE.

This advanced option is model-specific and the setting is saved in the options database.

**XS_SHOW_TEMPLATE_LOG_MESSAGES**

**Category** Templates and Symbols

Set this advanced option to TRUE to show error messages related to template attributes in the log file. Set it to FALSE to hide these messages. By default this advanced option is set to FALSE.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**XS_SINGLE_CENTERED_SCREW**

**Category** Single Part View in Assembly Drawing

Use to control the dimensioning of centrally-located bolts in single-part views included in assembly drawings. Possible values are:

- 0 = Dimensions the centered bolts spread.
- 5 = Dimensions the bolts to the main part center-lines.
- 6 = Overrides bolt overrides the Secondary part bolt internal dimensions setting for centered bolts. This only applies to bolts located centrally on the part.

This advanced option is model-specific and the setting is saved in the options database.

**XS_SINGLE_CLOSE_DIMENSIONS**

**Category** Single part view in assembly drawing

See also
Use to close dimensions in single-part views included in an assembly drawing.

- 0 = Does not close dimensions
- 1 = Closes dimensions in the x direction and leaves others open. This is the default value.
- 2 = Closes all dimensions

This advanced option is model-specific and the setting is saved in the options database.

See also

**XS_SINGLE_CLOSE_SHORT_DIMENSIONS**

**Category** Single Part View in Assembly Drawing

Use to close short dimensions in single-part views included in assembly drawings. The default value is 1. If you do not want to close short dimensions, enter 0.

This advanced option is model-specific and the setting is saved in the options database.

See also

**XS_SINGLE_COMBINE_DISTANCE**

**Category** Single Part View in Assembly Drawing

Use to set a distance for combining dimensions in single-part views included in assembly drawings. Enter a decimal value, for example 400.0.

By default, this advanced option is not set to any value.

This advanced option is model-specific and the setting is saved in the options database.

See also

**XS_SINGLE_COMBINE_MIN_DISTANCE**

**Category** Single Part View in Assembly Drawing

Use to set a minimum distance for combining dimensions in single-part views included in assembly drawings. Enter a decimal value, for example 200.0.

By default, this advanced option is not set to any value.

This advanced option is model-specific and the setting is saved in the options database.

See also
XS_SINGLE_COMBINE_WAY

Category Single Part view in assembly drawing

Use to combine dimensions in single-part views included in assembly drawings. The options correspond to the combining order on the General tab of the Dimensioning Properties dialog box. By default, this advanced option is not set to any value.

- Option 0 prevents dimensions from being combined.
- Option 1 combines part position dimensions with part internal dimensions, and bolt group internal dimensions with bolt edge distances. Bolt position dimensions are not combined with bolt internal dimensions.
- Option 2 combines the part position dimension with part internal dimensions and bolt group internal dimensions. Bolt internal dimensions are combined with bolt position dimensions. Edge distances are shown separately.
- Option 3 combines bolt internal dimensions and position dimensions in the same dimension line.
- Option 4 combines bolt group position dimensions with part position dimensions. Part and bolt internal dimensions are not combined with this option, but bolt internal dimensions are combined with bolt edge distances.
- Option 5 combines internal dimensions and the position dimension of bolt groups where there are several bolt groups.
- Option 4.5 uses a combination of option 5 for the main part and a combination of option 4 for the secondary parts.

This advanced option is model-specific and the setting is saved in the options database.

See also

XS_SINGLE_DIMENSION_TYPE

Category Single Part View in Assembly Drawing

Use to set a dimension type for single-part views included in assembly drawings. The options are:

- 1 = Relative, point to point dimensions. This is the default value.
- 2 = Absolute, dimensions from a common start point.
- 3 = Relative and absolute, a combination of point to point and common start point.
- 4 = US absolute, dimensions from a common start point, which include a running dimension mark (RD).
- 16 = US absolute 2, similar to US absolute, but it changes short dimensions to relative.
- 35 = Absolute plus short relatives, which is similar to Absolute, but it changes short dimensions to relative. Also called internal absolute. This option may show both
dimensions, but it does not show relative dimensions when dimensions are long. This option shows the absolute dimensions inside the dimension lines.

- 99 = Absolute plus all relatives above the absolutes, which is similar to Relative and absolute, but it places the relative dimensions above the absolute.

This advanced option is model-specific and the setting is saved in the options database.

**XS_SINGLE_DRAW_PART_AS**

**Category** Single Part View in Assembly Drawing

Use to define how parts appear (their representation type) in single-part views included in assembly drawings. The options are:

- 1 (default) solid
- 4 workshop solid (round tubes open)
- 2 symbol form

This advanced option is model-specific and the setting is saved in the options database.

**XS_SINGLE_EXCLUDE**

**Category** Single Part View in Assembly Drawing

Use to exclude single-part views from assembly drawings. The options are:

- NONE includes all single part views.
- MAIN_SHAFT includes single part views of all parts, except assembly main parts.
- ALL_SHAFTS includes single part views of all parts, except those with another object welded to them (i.e. main parts).
- AUTO (default) includes single part views of all parts, except the longest main part in the assembly.
- ALL_BUT_MAIN_PART includes single part views of assembly main parts only.
- STANDARD includes single-part views of all parts, except standard parts. You can add STANDARD after any of the existing values, for example MAIN_SHAFT_AND_STANDARD creates single-part drawing from all but main part or standard parts.

This advanced option is model-specific and the setting is saved in the options database.

**See also**
XS_SINGLE_FORWARD_OFFSET

Category  Single Part View in Assembly Drawing

Use to set the distance Tekla Structures uses to search for the base point of a dimension in single-part views included in an assembly drawing. If Tekla Structures does not find a base point (corner) within the defined forward offset search distance, it uses an edge point. Enter the value as a decimal, for example 250.0.

This advanced option is model-specific and the setting is saved in the options database.

See also

XS_SINGLE_NO_RELATIVE_SHAPE_DIMENSIONS

Category  Dimensioning: Parts

Set this advanced option to TRUE (default) to force shape dimensions to be the same as the dimension type you select. If you do not want to do this, set it to FALSE.

This advanced option is model-specific and the setting is saved in the options database.

See also  XS_NO_RELATIVE_SHAPE_DIMENSIONS on page 215

XS_SINGLE_NO_SHORTEN

Category  Single part view in assembly drawing

Set this advanced option to TRUE to display single-part views in drawings without shortening parts. The default value is FALSE.

This advanced option is model-specific and the setting is saved in the options database.

XS_SINGLE_ORIENTATION_MARK

Category  Single Part View in Assembly Drawing

You can display orientation symbols in single-part views included in assembly drawings. To show the orientation symbols in single-part views:

1. Click Tools --> Options --> Advanced Options... and go to the Single Part View in Assembly Drawing tab page.
2. Enter TRUE as the value.
3. In assembly drawing properties, click Layout... and go to the Other tab.
4. Set the option Single-part attributes to Current attributes. Tekla Structures takes the orientation mark settings from the current single-part drawing properties. If you select
other attributes, the visibility of the orientation symbols is set according to the selected attribute file.

The default value is FALSE.

This advanced option is model-specific and the setting is saved in the options database.

**XS_SINGLE_PART_DRAWING_VIEW_TITLE**

**Category** Drawing Properties

Use to define a title for single-part drawing views in a multidrawings. You can use any of the following to define the title:

- PART_NAME
- PART_MATERIAL
- PART_POS
- ASSEMBLY_POS
- MODEL_NUMBER
- LENGTH, PROFILE
- LENGTH
- BASE_NAME
- NAME

This advanced option is model-specific and the setting is saved in the options database.

**XS_SINGLE_PART_EXTREMA**

**Category** Single Part View in Assembly Drawing

Use to display overall dimensions in single-part views included in assembly drawings. Enter one of the following values:

- 0 = None
- 2 = Once
- 3 = All

This advanced option is model-specific and the setting is saved in the options database.

**XS_SINGLE_PART_SHAPE**

**Category** Single Part View in Assembly Drawing

Alphabetical list of advanced options 279
Use to show or hide shape dimensions in single part views.
Set to 1 (default) to show shape dimensions in single-part views.
Set to 0 to hide shape dimensions in single-part views.
Tekla Structures automatically creates radius dimensions for curved chamfers in single-part drawings when you use shape dimensions.
This advanced option is model-specific and the setting is saved in the options database.

**XS_SINGLE_SCALE**

**Category** Single Part view in Assembly Drawing

Use to set the scale of single-part views included in assembly drawings. Enter a decimal value. By default, this advanced option is not set to any value.
This advanced option is model-specific and the setting is saved in the options database.

**Example** To have Tekla Structures use the scale 1/10, enter 10.0.

**XS_SINGLE_SCREW_INTERNAL**

**Category** Single Part View in Assembly Drawing

Use to show or hide internal bolt dimensions in single part views included in assembly drawings.
Set to 1 to show internal bolt dimensions.
Set to 0 to hide internal bolt dimensions.
By default, this advanced option is not set to any value.
This advanced option is model-specific and the setting is saved in the options database.

**See also**

**XS_SINGLE_SCREW_POSITIONS**

**Category** Single Part View in Assembly Drawing

Use to include position dimensions for bolts in single-part views included in assembly drawings. Enter one of the following values:
- 0 = Off
- 1 = On
This advanced option is model-specific and the setting is saved in the options database.
See also

**XS_SINGLE_USE_WORKING_POINTS**

**Category** Single Part View in Assembly Drawing

Use to include dimensions from work points in single-part views included in assembly drawings. Enter one of the following values:

- 0 = None (default)
- 1 = Main part
- 2 = Working points
- 3 = Both

This advanced option is model-specific and the setting is saved in the options database.

**XS_SINGLE_X_DIMENSION_TYPE**

**Category** Single Part View in Assembly Drawing

Use to set the dimension type for single-part views included in assembly drawings. These are otherwise like straight dimensions set with the advanced option XS_SINGLE_X_DIMENSION_TYPE but they override the straight setting for horizontal dimensions.

- 0 = Tekla Structures uses straight dimension settings
- 1 = Relative, point to point dimensions. This is the default value.
- 2 = Absolute, dimensions from a common start point.
- 3 = Relative and absolute, a combination of point to point and common start point.
- 4 = US absolute, dimensions from a common start point, which include a running dimension mark (RD).
- 16 = US absolute 2, similar to US absolute, but it changes short dimensions to relative.
- 35 = Absolute plus short relatives, which is similar to Absolute, but it changes short dimensions to relative. Also called internal absolute. This option may show both dimensions, but it does not show relative dimensions when dimensions are long. This option shows the absolute dimensions inside the dimension lines.
- 99 = Absolute plus all relatives above the absolutes, which is similar to Relative and absolute, but it places the relative dimensions above the absolute.

This advanced option is model-specific and the setting is saved in the options database.
Marking: Bolts

Use to define the contents of the Size element in bolt marks (site). The default value is `%BOLT_NUMBER%*D%HOLE.DIAMETER%`.

You can use any combination of text and the following options as the value for this advanced option. Enclose each option in % characters. To use special characters enter a backslash (\) followed by an ASCII number. You can use the options in any order, and make calculations.

- BOLT_NUMBER
- DIAMETER
- LENGTH
- HOLE.DIAMETER
- LONG_HOLE_X
- LONG_HOLE_Y
- LONGHOLE_MIN (the shorter of the slotted hole dimensions)
- LONGHOLE_MAX (the longer of the slotted hole dimensions)
- BOLT_STANDARD
- BOLT_MATERIAL
- BOLT_ASSEMBLY_TYPE
- BOLT_COUNTERSUNK
- BOLT_SHORT_NAME
- BOLT_FULL_NAME

This advanced option is model-specific and the setting is saved in the options database.

See also

Marking: Bolts

Use to define the contents of the size element in bolt marks for site bolts in general arrangement drawings.

You can use any combination of text and the following options as the value for this advanced option. Enclose each option in % characters. To use special characters enter a backslash (\) followed by an ASCII number. You can use the options in any order, and make calculations.

- BOLT_NUMBER
- DIAMETER
• LENGTH
• HOLE.DIAMETER
• LONG_HOLE_X
• LONG_HOLE_Y
• LONGHOLE_MIN (the shorter of the slotted hole dimensions)
• LONGHOLE_MAX (the longer of the slotted hole dimensions)
• BOLT_STANDARD
• BOLT_MATERIAL
• BOLT_ASSEMBLY_TYPE
• BOLT_COUNTERSUNK
• BOLT_SHORT_NAME
• BOLT_FULL_NAME

This advanced option is model-specific and the setting is saved in the options database.

See also
XS_SITE_HOLE_MARK_STRING_FOR_SIZE_IN_GA on page 284
XS_SITE_LONGHOLE_MARK_STRING_FOR_SIZE_IN_GA on page 285

XS_SITE_HOLE_MARK_STRING_FOR_SIZE

Category Marking: Bolts

Use to define the contents of the Size element in hole marks (site). For example, to show bolt number and hole diameter in the mark, enter %BOLT_NUMBER*D%HOLE.DIAMETER%.

You can use any combination of text and the following options as the value for this advanced option. Enclose each option in % characters. To use special characters enter a backslash (\) followed by an ASCII number. You can use the options in any order, and make calculations.

• BOLT_NUMBER
• DIAMETER
• LENGTH
• HOLE.DIAMETER
• LONG_HOLE_X
• LONG_HOLE_Y
• LONGHOLE_MIN (the shorter of the slotted hole dimensions)
• LONGHOLE_MAX (the longer of the slotted hole dimensions)
• BOLT_STANDARD
• BOLT_MATERIAL
• BOLT_ASSEMBLY_TYPE
• BOLT_COUNTERSUNK
• BOLT_SHORT_NAME
• BOLT_FULL_NAME

This advanced option is model-specific and the setting is saved in the options database.

See also

**XS_SITE_HOLE_MARK_STRING_FOR_SIZE_IN_GA**

**Category**  Marking: Bolts

Use to define the contents of the size element in hole marks for site bolts in general arrangement drawings.

You can use any combination of text and the following options as the value for this advanced option. Enclose each option in % characters. To use special characters enter a backslash (\) followed by an ASCII number. You can use the options in any order, and make calculations.

• BOLT_NUMBER
• DIAMETER
• LENGTH
• HOLE.DIAMETER
• LONG_HOLE_X
• LONG_HOLE_Y
• LONGHOLE_MIN (the shorter of the slotted hole dimensions)
• LONGHOLE_MAX (the longer of the slotted hole dimensions)
• BOLT_STANDARD
• BOLT_MATERIAL
• BOLT_ASSEMBLY_TYPE
• BOLT_COUNTERSUNK
• BOLT_SHORT_NAME
• BOLT_FULL_NAME

This advanced option is model-specific and the setting is saved in the options database.

See also  
**XS_SITE_BOLT_MARK_STRING_FOR_SIZE_IN_GA** on page 282  
**XS_SITE_LONGHOLE_MARK_STRING_FOR_SIZE_IN_GA** on page 285
XS_SITE_LONGHOLE_MARK_STRING_FOR_SIZE

Category  Marking: Bolts

Use to define the contents of the Size element in slotted hole marks (site). The default value is %BOLT_NUMBER%*D%HOLE.DIAMETER% (%HOLE.DIAMETER+LONG_HOLE_X% x %HOLE.DIAMETER+LONG_HOLE_Y%).

You can use any combination of text and the following options as the value for this advanced option. Enclose each option in % characters. To use special characters enter a backslash (\) followed by an ASCII number. You can use the options in any order, and make calculations.

- BOLT_NUMBER
- DIAMETER
- LENGTH
- HOLE.DIAMETER
- LONG_HOLE_X
- LONG_HOLE_Y
- LONGHOLE_MIN (the shorter of the slotted hole dimensions)
- LONGHOLE_MAX (the longer of the slotted hole dimensions)
- BOLT_STANDARD
- BOLT_MATERIAL
- BOLT_ASSEMBLY_TYPE
- BOLT_COUNTERSUNK
- BOLT_SHORT_NAME
- BOLT_FULL_NAME

This advanced option is model-specific and the setting is saved in the options database.

See also

XS_SITE_LONGHOLE_MARK_STRING_FOR_SIZE_IN_GA

Category  Marking: Bolts

Use to define the contents of the size element in longhole marks for site bolts in general arrangement drawings.

You can use any combination of text and the following options as the value for this advanced option. Enclose each option in % characters. To use special characters enter a backslash (\) followed by an ASCII number. You can use the options in any order, and make calculations.

- BOLT_NUMBER
• DIAMETER
• LENGTH
• HOLE.DIAMETER
• LONG HOLE X
• LONG HOLE Y
• LONGHOLE_MIN (the shorter of the slotted hole dimensions)
• LONGHOLE_MAX (the longer of the slotted hole dimensions)
• BOLT_STANDARD
• BOLT_MATERIAL
• BOLT_ASSEMBLY_TYPE
• BOLT_COUNTERSUNK
• BOLT_SHORT_NAME
• BOLT_FULL_NAME

This advanced option is model-specific and the setting is saved in the options database.

See also
XS_SITE_HOLE_MARK_STRING_FOR_SIZE_IN_GA on page 284
XS_SITE_BOLT_MARK_STRING_FOR_SIZE_IN_GA on page 282

XS_SNAPSHOT_DIRECTORY

Category File Locations

Use this advanced option to define the folder where Tekla Structures stores screenshots when you select Tools --> Screenshot and one of the commands. If you do not define a path, Tekla Structures stores screenshots in the current model folder. The default value is \screenshots\.

If the defined folder does not exist, Tekla Structures automatically creates it when you take a screenshot.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

Example c:\temp\
Use this advanced option to define the size of the solid object buffer. The default value is 50000. The buffer size setting depends on your environment.

Tekla Structures creates a buffer in system RAM to store the solid representation of parts it creates during certain processes. For example, Tekla Structures creates solid objects when numbering a model. When this buffer fills up, Tekla Structures erases the contents in order to continue using the buffer.

When you increase the buffer size, Tekla Structures keeps more solid objects in the memory, and does not have to recreate them so often. Increasing this value also increases the memory used by the processes. Decreasing this value decreases the memory requirements, but also the performance as Tekla Structures has to recreate solid objects more often.

Testing various settings is the best way to optimize the solid object buffer size. Remember that opening Tekla Structures windows uses some RAM, and that other programs also use RAM for various processes.

For optimum performance for large models under restricted memory conditions, consider having the solid cache size in between 0.2 - 5 * the number of parts in your model. To find out the number of parts in the model, click Tools --> Inquire --> Model size.

In 64-bit machines you do not usually have to change the default value. If the amount of memory is large, keep the buffer size at least as large as the number of parts in the model.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**XS_SOLID_USE_HIGHER_ACCURACY**

**Category** This advanced option can be set in initialization files.

Set this advanced option to TRUE to model profiles more accurately in model views and in drawings using profile roundings and sloping flanges. If do not want to do this, set it to FALSE. Using this advanced option also makes the weight value more accurate.

The default value is FALSE.

---

This advanced option increases the number of faces in solid objects, which slows down Tekla Structures. We recommend using this advanced option only when needed.

**Limitations**

- In components, some stiffeners might bite into flanges of columns or beams.
- Some bolt edge distances are not correctly calculated.

See also **XS_CS_CHAMFER_DIVIDE_ANGLE on page 84**
**XS_STACKED_FRACTION_TYPE**

**Category** Imperial units

Use to define the appearance of fractions. You can use stacked fractions in drawings, text, marks etc., but not in templates. The options are (from left to right in the illustration):

- NOT_STACKED
- DASH
- SLASH
- WITHOUT_SLASH

If you do not want to use stacked fractions, set this advanced option to NOT_STACKED, (default) or use a backslash character (\) before the slash character (/) in the text (e.g. 1\/16).

This advanced option is model-specific and the setting is saved in the options database.

**XS_STANDARD_GUSSET_WIDTH_TOLERANCE**

**Category** Components

Use to define the tolerance between the actual and standard widths of gusset plates created using modeling tools or connections. Tekla Structures uses a standard plate file to define the default plate width including the tolerance value. Enter the value in millimeters, for example 1.0.

Components that use this advanced option are:

- Welded gusset (10)
- Bolted gusset (11)
- Tube gusset (20)
- Corner tube gusset (56)
- Corner bolted gusset (57)
- Wraparound gusset (58)
- Hollow brace wraparound gusset (59)
- Wraparound gusset cross (60)
- Gusseted cross (62)
- Corner wrapped gusset (63)

This advanced option is model-specific and the setting is saved in the options database.
**XS_STANDARD_STIFFENER_WIDTH_TOLERANCE**

**Category** Components

Use to define the tolerance between the actual and standard widths of stiffener plates created by Haunch (40), Stiffeners (1003) and Multiple stiffeners (1064). Enter the value in millimeters. The advanced option is set to 10 by default.

This advanced option is model-specific and the setting is saved in the options database.

**XS_STD_LOCALE**

**Category** This advanced option can be set in initialization files.

This advanced option is system-specific and is read from teklastructures.ini. Generally, there is no need to modify system-specific settings. Do not modify them if you are not an administrator.

Use this advanced option to be able to open drawings in a situation where you have English Tekla Structures and multi-byte locale Windows operating system. Set it to one of the following values in the teklastructures.ini file, depending on the locale of your operating system:

- set XS_STD_LOCALE=japanese
- set XS_STD_LOCALE=chinese-traditional
- set XS_STD_LOCALE=chinese-simplified
- set XS_STD_LOCALE=russian_us.1251
- set XS_STD_LOCALE=korean_korea.949

If you set XS_STD_LOCALE to any other value, or leave the value out, English locale is used by default.

**XS_STD_PART_MODEL**

**Category** Numbering

To use standard parts in numbering, enter the standard part model folder path. A standard-part model contains only standard parts with specific part prefixes. As Tekla Structures carries out the numbering, it compares all of the parts in the current model to the standard-part model. The numbering applies any part position numbers (only the part prefix) found in the standard-part model to all identical parts found in the current model. To not use standard parts, leave the value out.

This advanced option is model-specific and the setting is saved in the options database.
XS_STD_PART_MODEL=C:\TeklaStructuresModels\StandardParts\n
See also

XS_STEEL1_TS_PAGE_9_EXTENSION

Category  This advanced option can be set in initialization files.

Used for localizing the contents of Component page 9. By default standard component settings are used. For example, in the US Imperial environment, you can use the value _usimp.

Step profiles are coming from steps.dat file, which is environment specific and located in ..\ProgramData\Tekla Structures\<version>\environments <environment>\system folder. To get a profile visible in the catalogue step/step profile list in the Stairs component dialog box, the names of the profiles have to be listed also in the environment-specific .inp file in the \TeklaStructures\<version> \applications\steell-folder. There are different files for each environment: ts_page_10_australasia.inp, ts_page_10_austria.inp, ts_page_10_china.inp, etc. For example, in the US Imperial environment, you can use the value _usimp for this advanced option.

Affected stair components and options:

- Stairs (S71): Stair setup tab: Catalogue step
- Stairs (S82): Parameters tab: Step profile

XS_STEEL1_TS_PAGE_10_EXTENSION

Category  This advanced option can be set in initialization files.

Used for localizing the contents of Component page 10 (catalog steps in stair components). By default standard component settings are used.
For Stairs S71, the Step type must be set to Catalogue step, to be able to select the step profile from the Catalogue step list.
XS_STORE_MULTIPLE_BAK_FILES

Category File Locations

Set this advanced option to TRUE to store multiple versions of the backup copy of the model database. The default value is FALSE.

A new copy of the .bak backup file is created each time the model is saved. The name of each backup file includes the date and time the file was created. Old or unnecessary files need to be deleted manually.

XS_SUPERSCRIPT_HEIGHT_FACTOR

Category Dimensioning: General

Use this advanced option to set the scale factor for the text height in superscripts used in dimensions. The default is 0.7.

This advanced option is model-specific and the setting is saved in the options database.
Examples

<table>
<thead>
<tr>
<th>Example number</th>
<th>The advanced option is set to</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.7</td>
</tr>
<tr>
<td>2</td>
<td>1.5</td>
</tr>
<tr>
<td>3</td>
<td>0.5</td>
</tr>
</tbody>
</table>

**XS_SUPERSCRIPT_USED_IN_DRAWING_TEXTS**

**Category** Dimensioning: General

Set to TRUE to enable the showing of superscript in texts in drawings, and to FALSE to disable it. The default is TRUE.

This advanced option is model-specific and the setting is saved in the options database.

**XS_SUPPORT_EMAIL_ADDRESS**

**Category** This advanced option can be set in initialization files.

This advanced option is system-specific and is read from environment files. Generally, there is no need to modify system-specific settings. Do not modify them if you are not an administrator.

This advanced option defines the e-mail address of your local support. This address is added as the e-mail recipient when you select Help --> Contact Tekla Support... .

**Example** set

```
XS_SUPPORT_EMAIL_ADDRESS=TeklaStructures.Support.FI(at)tekla.com
```
**XS_SWITCH_MULTI_NUMBERS_FOR**

**Category**: Numbering

Use to define the order in which multidrawing numbers, and part or assembly numbers appear in multi-numbers. The options are: NONE, ASSEMBLIES, PARTS and ASSEMBLIES_AND_PARTS. The default value is ASSEMBLIES_AND_PARTS.

This advanced option is model-specific and the setting is saved in the options database.

**Example**: If this advanced option is set to PARTS, the presentation of multinumbers for parts is 101a, not a101.

**XS_SWITCH_POS_NUMBERS_FOR**

**Category**: Numbering

Changes the prefix you define for Tekla Structures assembly and/or part marks to a suffix (for example, A1 becomes 1A). The options are NONE, PARTS, ASSEMBLIES, and ASSEMBLIES_AND_PARTS. The default value is ASSEMBLIES_AND_PARTS.

This advanced option is model-specific and the setting is saved in the options database.

**SYMEDHOME**

**Category**: Templates and symbols

Points to the location of the symbol editor message file. The default value is %XSBIN%.

This advanced option is system-specific and is read from environment files. Generally, there is no need to modify system-specific settings. Do not modify them if you are not an administrator.

**XS_SYSTEM**

**Category**: File locations

This advanced option is only meant for administrators.

It points to the location of the Tekla Structures system folder.
Specifying more than one system folder

You can specify more than one system folder as the value for this advanced option. To do this, enter the file paths of the folders, separated by semicolons.

Example:

```
set XS_SYSTEM=%XSDATADIR%\environments\default\system\Concrete\precast;%XSDATADIR%\environments\default\system\Concrete;%XSDATADIR%\environments\common\system\ConstructionManagement\;%XSDATADIR%\environments\common\system\precast;%XSDATADIR%\environments\common\system\;
```

Tekla Structures searches the folders from right to left. If files with identical names exist in several folders, the one that is read last will be used. In the example above, the files found from default\system\Concrete\precast\ will be used instead of the files with identical names in common\system\ or in any other folder mentioned before the last folder.

This is a system-specific advanced option and cannot be changed.

See also  Folder search order

---

**2.19 Template Font Conversion File**

**Category**: Templates and Symbols

Points to the location of the template font conversion file template_fonts.cnv. By default the path is %DXK_FONTPATH%\template_fonts.cnv meaning, for example, C:\ProgramData\Tekla Structures<version>\environments\common\fonts\template_fonts.cnv.

This advanced option is system-specific and is read from environment files. Generally, there is no need to modify system-specific settings. Do not modify them if you are not an administrator.

**XS_TEMPLATE_DIRECTORY**

**Category**: File locations

Points to the folder containing template (*.tpl) and report (*.rpt) files.
This advanced option is model-specific and the setting is saved in the options database. You can use semicolon-separated lists of folder paths.

See also Folder search order

**XS_TEMPLATE_DIRECTORY_SYSTEM**

Category This advanced option can be set in initialization files.

This advanced option is system-specific and is read from environment files. Generally, there is no need to modify system-specific settings. Do not modify them if you are not an administrator.

This advanced option is used in environment initialization files to define the location of environment-specific templates (.tpl) and reports (.rpt). You can use semicolon-separated lists of folder paths.

Other users than administrators can define local folders using the advanced options XS_FIRM, XS_PROJECT and XS_TEMPLATE_DIRECTORY.

Example set XS_TEMPLATE_DIRECTORY_SYSTEM=%XSDATADIR%\environments\australasia\template\ 

See also Project and firm folders

* XS_TEMPLATE_DIRECTORY on page 295
* XS_FIRM on page 169
* XS_PROJECT on page 242

**XS_TEMPLATE_MARK_SUB_DIRECTORY**

Category File Locations

Use this advanced option to change the name of the subfolder where Tekla Structures searches the templates that you use in marks. When you are adding a template in a mark, the available templates are displayed in the Mark content – template dialog box.

By default, mark is the value for this advanced option. You can create another folder with another name and save your mark templates there, and enter the name of that folder as the value for this advanced option.

This advanced option is model-specific and the setting is saved in the options database.

Example Example of using another folder:

XS_TEMPLATE_MARK_SUB_DIRECTORY=my_mark_tpl

The mark templates are in this example case searched from the following folders in the following order:
See also

**XS_TEXT_ORIENTATION_EPSILON**

**Category**: Drawing Properties

Use to define the point where text or dimension mark text that is positioned almost vertically is turned so that it is faced the other way around.

The default is 0.1, which is 5.72958 degrees. For example, if you want the text to change (flip) at 100 degrees (or 10 off 90), you need to set this advanced option to 0.175.

This advanced option is model-specific and the setting is saved in the options database.

**Example**

See also

**TEXT_X_SIZE**

This advanced option can be set in initialization files.

Use to change font size in the Template Editor. The default value is 3.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.
Example  set TEXT_X_SIZE=3

TEXT_Y_SIZE
This advanced option can be set in initialization files.
Use to change font size in the Template Editor. The default value is 5.
This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.
Example  TEXT_Y_SIZE=5

XS_THICKNESS_PARAMETER_IS_CROSS_SECTION_THICKNESS

Category  Profiles
Use to define the method to measure the thickness of parts (flanges, plates, walls and so on). When set to FALSE, the thickness parameter of the profile defines the actual thickness. When set to TRUE, the thickness parameter defines the cross section thickness (which is not same as the actual thickness if the part is sloped).
The default value is FALSE. We recommend that you use this value.
The change applies to the following profile types:
• SPD
• EPD
• I
• RHS
• PD
• P

XS_THUMBNAIL_FONT

Category  Model View
Use to set the font used in the component catalog thumbnails. The default value is Arial.
This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.
XS_TPLED_INI

**Category** File Locations

Defines the location of the tpled.ini file.

This is a system-specific advanced option.

**Example** ..\ProgramData\Tekla Structures\<version>\environments\default\template\settings\n


XS_TRY_TO_KEEP_LOCATION_IN_FREEPLACING

**Category** Drawing Properties

Use to fine-tune the functionality of the Arrange Drawing Objects command in drawings.

This advanced option is set to **TRUE** by default, meaning that the Arrange Drawing Objects command tries to find a new location for the selected object as close to the current location as possible. If the current location is free, the object is not moved at all.

When this advanced option is set to **FALSE**, the Arrange Drawing Objects command works the same way as Ignore Current Locations.

This advanced option is model-specific and the setting is saved in the options database.


XS_TUBE_UNWRAP_LIMIT_THICKNESS

**Category** Drawing Properties

Use this advanced option to define how Tekla Structures draws tubes.

Set to a decimal value. Tekla Structures individually draws the inner and outer surfaces of tubes that are thicker than this value.

This advanced option is model-specific and the setting is saved in the options database.

---

If the advanced option XS_TUBE_UNWRAP_WITH_CUT_HOLES is set to **TRUE**, this advanced option has no effect.

---

**See also** XS_TUBE_UNWRAP_WITH_CUT_HOLES on page 300


XS_TUBE_UNWRAP_PAPER_THICKNESS

**Category** Drawing Properties

Alphabetical list of advanced options 299 T
This advanced option lengthens unfolded tubes by the following multiplication factor:

\[ \text{factor} = 1.0 + 2 \times \frac{\text{XS_TUBE_UNWRAP_PAPER_THICKNESS}}{\text{diameter}} \]

The default value is 0.0.

If the advanced option \text{XS_TUBE_UNWRAP_WITH_CUT_HOLES} is set to \text{TRUE}, this advanced option has no effect.

This advanced option is model-specific and the setting is saved in the options database.

**Example**

Tube \( d=219 \)

When you set the advanced option to 0, the unwrapped length of the tube \((1.0 \times \pi \times \text{diameter})\) = 688.

When the advanced option is set to 10, the length of the unfolded tube = \text{factor} \times \text{diameter} \times \pi = (1.0 + 2 \times 10/219) \times 219 \times 3.14 = 751

**See also** \text{XS_TUBE_UNWRAP_WITH_CUT_HOLES} on page 300

---

\text{XS_TUBE_UNWRAP_USE_PLATE_PROFILE_TYPE_IN_NC}

**Category** CNC

To use the plate profile type B in the NC file header data for unwrapped round tubes, set this advanced option to \text{TRUE}. To use RO for round tubes, set it to \text{FALSE}. The default value is \text{TRUE}.

This advanced option is model-specific and the setting is saved in the options database.

Use this advanced option only when you have set the advanced option \text{XS_TUBE_UNWRAP_WITH_CUT_HOLES} to \text{TRUE}.

**See also** \text{XS_TUBE_UNWRAP_WITH_CUT_HOLES} on page 300

---

\text{XS_TUBE_UNWRAP_WITH_CUT_HOLES}

**Category** Drawing Properties

Set to \text{TRUE} to include cut holes in workshop drawings or NC files of unwrapped CHS (circular hollow section) profiles.

This advanced option is set to \text{TRUE} by default. If you set it to \text{FALSE}, then the previously existing unwrapping method is applied.
This advanced option is model-specific and the setting is saved in the options database.

If you set this advanced option to **TRUE**, the advanced options

- **XS_TUBE_UNWRAP_LIMIT_THICKNESS**
- **XS_TUBE_UNWRAP_PAPER_THICKNESS**

have no effect.

Note also that using this advanced option does not affect conical tube profiles.

---

**See also**

- **XS_TUBE_UNWRAP_LIMIT_THICKNESS** on page 299
- **XS_TUBE_UNWRAP_PAPER_THICKNESS** on page 299
- **XS_TUBE_UNWRAP_USE_PLATE_PROFILE_TYPE_IN_NC** on page 300

---

**2.20 U**

**XS_UEL_IMPORT_FOLDER**

**Category**

This advanced option can be set in initialization files. It is system-specific.
You can collect all the *.uel files exported from your custom components and sketched profiles in folders, and then automatically import them to new models. Use this advanced option to point to the folders containing the *.uel files. You can import *.uel files from several folders by separating the folders with a semicolon, for example:

```plaintext
set XS_UEL_IMPORT_FOLDER=%XSDATADIR%\environments\common\components_sketches;%XSDATADIR%\environments\finland\components_sketches;%XSDATADIR%\environments\finland\components_sketches\precast\n```

When this advanced option is set (preferably in the user.ini file), and you create a new model, Tekla Structures automatically imports the *.uel files to the model.

To take the custom components and sketched profiles in use in existing models, import the .uel files through the Component Catalog.

---

**XS_UNDERLINE_AFTER_POSITION_NUMBER_IN_HARDSTAMP**

**Category**  
CNC

Set the advanced option to **TRUE** to have an underscore (_ ) after the part position (without an assembly position) in a hardstamp.

The default value is **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.

---

**XS_UNFOLDING_ANGLE_DIM_FORMAT**

**Category**  
Dimensioning: Unfolding

Use to define the format of angle text by entering an integer 0 - 7. The default value is 1. Enter one of the following values:

- 0 = ###
- 1 = ###[..]
- 2 = ###.#
- 3 = ###[..#]
- 4 = ###.##
- 5 = ###[..##]
- 6 = ###.###
- 7 = ### #/#

This advanced option is model-specific and the setting is saved in the options database.
**XS_UNFOLDING_DONT_USE_NEUTRAL_AXIS_FOR_RADIUS**

**Category**  
Dimensioning: Unfolding

By default, Tekla Structures uses the neutral axis of the part to calculate the bending radius in unfolded views. This advanced option only affects curved polybeams. Set this advanced option to TRUE to calculate the bending radius from the inner surface of the part. Set it to FALSE to calculate the radius along the neutral axis. The default value is TRUE.

This advanced option is model-specific and the setting is saved in the options database.

---

This advanced option does not work if XS_USE_OLD_POLYBEAM_LENGTH_CALCULATION is set to TRUE.

---

The settings in the unfold_corner_ratios.inp override this advanced option.

---

**See also**  
XS_USE_OLD_POLYBEAM_LENGTH_CALCULATION on page 322

**XS_UNFOLDING_ANGLE_DIM_PRECISION**

**Category**  
Dimensioning: unfolding

Use to define the precision of angle text. Enter an integer 1 - 10. The default value is 10. Enter one of the following values:

- 1 = 0.00
- 2 = 0.50
- 3 = 0.33
- 4 = 0.25
- 5 = 1/8
- 6 = 1/16
- 7 = 1/32
- 8 = 1/10
- 9 = 1/100
- 10 = 1/1000

---

Alphabetical list of advanced options  303  U
Values 1 - 4 are intended for defining precision with rounding. For example, with precision 0.33 the actual dimension 50.40 is shown as 50.33. Values 5 - 7 are used for imperial units only. Values 8 - 10 are used for defining precision without rounding.

This advanced option is model-specific and the setting is saved in the options database.

**XS_UNFOLDING_PLANE_EPSILON**

**Category** Dimensioning: Unfolding

Use to specify the limit for checking if all section points are on the same plane. If the points are on the same plane, the part can be unfolded. Enter the value in millimeters. The default value is 0.01 mm.

This advanced option is model-specific and the setting is saved in the options database.

**XS_UNIQUE_NUMBERS**

**Category** Numbering

Set this advanced option to **TRUE** to have Tekla Structures create unique position numbers for all parts when numbering, even if they are equal. The default value is **FALSE**.

See also [XS_UNIQUE_ASSEMBLY_NUMBERS on page 304](#)

**XS_UNIQUE_ASSEMBLY_NUMBERS**

**Category** Numbering

Set to **TRUE** if you want Tekla Structures to create unique position numbers for all assemblies when numbering, even if they are identical.

The default value is **FALSE**.

Parts are still numbered the same way as before.

This advanced option is model-specific and the setting is saved in the options database.

See also [XS_UNIQUE_NUMBERS on page 304](#)

**XS_UPDATE_MARK_PLACING_IN_DRAWING**

**Category** Marking: Parts
Updates the position of updated marks in specific drawing types. Use the letters in the following table to specify the drawing types.

<table>
<thead>
<tr>
<th>Letter</th>
<th>Drawing type</th>
</tr>
</thead>
<tbody>
<tr>
<td>W</td>
<td>Single-part drawings</td>
</tr>
<tr>
<td>A</td>
<td>Assembly drawings</td>
</tr>
<tr>
<td>M</td>
<td>Multidrawings</td>
</tr>
<tr>
<td>G</td>
<td>General arrangement drawings</td>
</tr>
<tr>
<td>C</td>
<td>Cast unit drawings</td>
</tr>
</tbody>
</table>

The default value is AMW, which means that the mark position is updated in assembly drawings, multidrawings and single-part drawings.

This advanced option is model-specific and the setting is saved in the options database.

**Example** To update the position of updated part marks in single-part, assembly, multi-, and general arrangement drawings:

```plaintext
XS_UPDATE_MARK_PLACING_IN_DRAWING=WAMG
```

**XS_UPDATE_MARKS_IN_FROZEN_DRAWINGS**

**Category** Marking: General

Set this advanced option to `TRUE` to automatically update marks in frozen drawings and create new marks if new parts have been added. If you set it to `FALSE`, Tekla Structures only updates parts and bolts. The default value is `TRUE`.

This advanced option is model-specific and the setting is saved in the options database.

**XS_UPSIDE_DOWN_TEXT_ALLOWED**

**Category** Concrete detailing

Set this advanced option to `TRUE` to place part marks and texts upside down to illustrate that identical parts have a different orientation. If you set it to `FALSE`, Tekla Structures automatically changes all marks or texts that are rotated more than 90 degrees. If you set it to `CONCRETE`, only concrete marks and texts are upside down. If you set it to `STEEL`, only steel marks and texts are upside down. If you select `TIMBER`, only timber marks and texts are upside down. You can also use combinations of values separated by a comma, for example, `CONCRETE,STEEL`. 
This advanced option is role-specific. When the type **SYSTEM(ROLE)** is in use, the default value is used. When the type **MODEL(ROLE)** or **DRAWING(ROLE)** is in use, you can change the value, which is then the same for all users in the current model.

### XS_USABSOLUTE_TO_RELATIVE_LIMIT

**Category**  
Dimensioning: General

Use to affect the distance within which the first and last US Absolute dimension lines appear as relative. By default, this advanced option is not set to any value.

**Example**  
**XS_USABSOLUTE_TO_RELATIVE_LIMIT**=1000

In this example, Tekla Structures will change first and last dimension lines shorter than 1000 mm to Relative dimensions. Dimension lines greater or equal to 1000 mm will remain US Absolute dimensions.

This advanced option is model-specific and the setting is saved in the options database.

### XS_USABSOLUTE2_TO_RELATIVE_LENGTH_FACTOR

**Category**  
Dimensioning: General
Tekla Structures multiplies the space required by US Absolute2 dimension text by this value. If the result is larger than the actual dimension, Tekla Structures changes the dimension type to relative. The default value is 1.5.

This advanced option is model-specific and the setting is saved in the options database.

**XS_USE_ASSEMBLY_EXTREMA_IN_MARK_PLACING**

**Category** - Marking: General

Use this advanced option to place part marks on top of the assembly instead of on top of the main part. First create a drawing view filter and enter the name of the filter as the value. This advanced option can only be used for main parts of assemblies or cast units, not for secondary parts.

The supported mark placing types are shown below.

![Mark Placing Types](image)

**XS_USE_ASSEMBLY_NUMBER_FOR**

**Category** Numbering

Use this advanced option if you want the assembly/cast unit number to be also the main part number for the corresponding assembly/cast unit. Use one of the following options:

- Leave this option blank for each part in the assembly to get a part number, regardless of whether the assembly contains only one main part or several parts.
- Set to **MAIN_PART** to always assign the assembly or cast unit number to the main part of an assembly or cast unit. All other parts, if any, will use part number.
- Set to **LOOSE_PART** to assign the assembly or cast unit number to the main part of an assembly or cast unit that has no other parts. If the assembly or cast unit has several parts, the main part will receive a part number.

The assembly prefix replaces the part prefix.
Do not use the same prefix for parts and assemblies.

This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.

See also

Example: One part, blank value on page 308
Example: Multiple parts, blank value on page 308
Example: One part, LOOSE_PART on page 309
Example: Multiple parts, LOOSE_PART on page 309
Example: One part, MAIN_PART on page 310
Example: Multiple parts, MAIN_PART on page 310

Example: One part, blank value
Example: Multiple parts, blank value

Example: One part, LOOSE_PART
### Example: Multiple parts, LOOSE_PART

![Diagram of a beam with multiple parts labeled as LOOSE_PART.]

**Bill of Material**

<table>
<thead>
<tr>
<th>PART</th>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1</td>
<td>1</td>
<td>Beam</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B2</td>
<td>1</td>
<td>Vertical</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Example: One part, MAIN_PART**

![Diagram of a vertical brace with one part labeled as MAIN_PART.]

**Bill of Material**

<table>
<thead>
<tr>
<th>PART</th>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1</td>
<td>1</td>
<td>Vertical Brace</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**XS_USE_BOLT_DISTANCE_IN_NOTCH_CALCULATIONS**

This advanced option can be set in initialization files.

Set this advanced option to **TRUE** to use automatic notch height calculation according to bolt distance. This affects connections 129 and 184.

**XS_USE_COLOR_DRAWINGS**

**Category** Drawing View

Changes the default color mode in drawings when the Tekla Structures is started. If you set this advanced option to **FALSE** or leave the value out, drawings are black and white (default). Set it to **GRAY** to have gray scale drawings. Set it to any other value, for example, **COLOR**, **TRUE** or 1, to use colors in drawings.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**See also**

Alphabetical list of advanced options 311
**XS_USE_CONVEX_PROTECT_AREA**

**Category** Drawing Properties

Set this advanced option to **TRUE** to automatically calculate the protection area more accurately along the faces of parts, so that part marks can be placed inside the profile also for curved hollow sections. To protect the area the object covers, enter **FALSE**. The default value is **TRUE**.

This advanced option is model-specific and the setting is saved in the options database.

**See also**

**XS_USE_CROSS_FOR_OPENING_SYMBOL**

**Category** Drawing Properties

Use **XS_USE_CROSS_FOR_OPENING_SYMBOL** to select how the openings/recesses are shown and the symbols to be used.

The default value is **TRUE**, which means that a cross is used as the opening/recess symbol.

This advanced option is model-specific and the setting is saved in the options database.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
</table>
| **TRUE**<br>This is the default. | Crosses are used as symbols for openings as follows:  

![Cross Symbol](image1)

If the recess is on the front face of the part, recess symbol and bounding lines are shown as unbroken lines as follows:

![Front Recess Symbol](image2)

If the recess is on the back face of the part, recess symbol and bounding lines are shown as dashed lines as follows:

![Back Recess Symbol](image3) |
| **FALSE** | Shadows are used as symbols for openings as follows:  

![Shade Symbol](image4) |
<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>If the recess is on the front face of the part, there is no recess symbol, and bounding lines are shown as unbroken lines as follows:</td>
<td></td>
</tr>
<tr>
<td><img src="image1.png" alt="Unbroken Lines" /></td>
<td></td>
</tr>
<tr>
<td>If the recess is on the back face of the part, there is no recess symbol, and bounding lines are shown as dashed lines as follows:</td>
<td></td>
</tr>
<tr>
<td><img src="image2.png" alt="Dashed Lines" /></td>
<td></td>
</tr>
</tbody>
</table>

**XS_USE_DRAWING_NAME_AS_PLOT_FILE_NAME**

**Category**  This advanced option can be set in initialization files.

Set this advanced option to `TRUE` to prevent Tekla Structures from converting the dot in the drawing name to an underscore in the plot file name when printing, for example B.1 to B_1. The default value is `FALSE`.

**XS_USE_DYNAMIC_ROW_WIDTH_IN_TEMPLATES**

**Category**  This advanced option is available only in initialization files.

Set this advanced option to `TRUE` to fit the template row width dynamically according to the content, for example, drawing frames according to the different drawing sizes. The content must always be located on the right. If you set this advanced option to `FALSE`, automating fitting of the templates rows is not in use.

The default value is `FALSE`.
This functionality is not available in drawing part mark templates.
XS_USE_DRAWING_NAME_AS_PLOT_TITLE

Category  Printing

Set this advanced option to TRUE when you want to use the drawing name as the print title, for example, when printing to a .pdf file or to a Windows printer. To use the general Tekla Structures print title, such as "Tekla Structures drawing - A [T.100]", set it to FALSE. The default value is TRUE.

As a result, the Windows printer dialog box, and the pdf file name will contain the drawing print file name you define with the advanced options listed below.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

See also  XS_DRAWING_PLOT_FILE_NAME_A on page 135
XS_DRAWING_PLOT_FILE_NAME_C on page 137
XS_DRAWING_PLOT_FILE_NAME_W on page 136
XS_DRAWING_PLOT_FILE_NAME_G on page 136
XS_DRAWING_PLOT_FILE_NAME_M on page 137

XS_USE_EIGHT_COLORS_IN_MODELING_VIEWS

Category  Model View

Set to TRUE to disable additional colors in modeling views. The default value is FALSE.

XS_USE_EXACT_EXTREMA_FOR_REFERENCE_MODELS

Category  Speed and Accuracy

Set to TRUE to have Tekla Structures use exact view boundaries when displaying reference models. The default is TRUE.

If the reference model is visible in a drawing, and only a part of it is inside the view boundaries, and this advanced option is set to FALSE, the view frame is too large. It surrounds the whole reference model even only the part inside the view boundaries is shown.

When you set this advanced option to TRUE, the boundaries of reference models in slanted positions are large enough. If you set this advanced option to FALSE, the View --> Fit Work Area command may result in a too small work area.

Setting to TRUE may slow down the system or produce incorrect results in the handling of the hidden lines in drawings.

This advanced option is model-specific and the setting is saved in the options database.
XS_USE_EXACT_SOLID_FOR_CLASH_CHECK

**Category**  Speed and Accuracy

If you set this advanced option to **FALSE** (default), normal solid accuracy is used in clash checking. If you need to use high solid accuracy in clash checking, set this advanced option to **TRUE**. This advanced option is model specific.

Using high accuracy, that is, setting this advanced option to **TRUE**, slows down the clash checking process, and there is a higher risk of solid errors.

---

XS_USE_EXISTING_SINGLE_PART_DRAWINGS_IN_ASSEMBLY_DRAWINGS

**Category**  Single Part View in Assembly Drawing

You can specify whether to create new views or to use views from existing single part drawings in assembly drawings. When this advanced option is set to **TRUE**, existing single part drawing views will be used in assembly drawings. When set to **FALSE**, or if there is no existing single part drawing for a given part, a new view will be created according to the Single-part attributes setting (Assembly drawing properties --> Layout --> Other). The default value is **FALSE**.

This setting only works with assembly drawings, not with multidrawings

This advanced option is model-specific and the setting is saved in the options database.

---

XS_USE_FLAT designATION

**Category**  Plate Work

Set this advanced option to **TRUE** to use flat bar designation. To turn the advanced option off, set it to **FALSE**. The default value is **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.

**See also**
**XS_USE_LINECLIP**

**Category** Printing

Set to `FALSE` to display continuous lines in printed drawings, for example, to run the line through text or drawing marks. If you set this advanced option to `TRUE`, the line is clipped at objects. The default value is `TRUE`.

![Text object](image1.png) ![Text object](image2.png)

- **XS_USE_LINECLIP** is set to `TRUE`.
- **XS_USE_LINECLIP** is set to `FALSE`.

This advanced option is role-specific. When the type `SYSTEM(ROLE)` is in use, the default value is used. When the type `MODEL(ROLE)` or `DRAWING(ROLE)` is in use, you can change the value, which is then the same for all users in the current model.

---

**XS_USE_LONG_POINTS_IN_DIMENSIONING**

**Category** Dimensioning: Parts

Sometimes there may be a need to dimension the parts in assembly or single-part drawings so that copes or notches are not taken into account, for example, to estimate the space needed for transportation.

If you set this advanced option to `TRUE`, the overall dimensions are calculated to long points. If you set it to `FALSE`, the overall dimensions are calculated to cope points. `FALSE` is the default.

This advanced option is role-specific. When the type `SYSTEM(ROLE)` is in use, the default value is used. When the type `MODEL(ROLE)` or `DRAWING(ROLE)` is in use, you can change the value, which is then the same for all users in the current model.

**Example**

In the example below, the upper dimension (the red one) shows the result when this advanced option is set to `TRUE`, and the lower one when it is set to `FALSE` (the green one).
Using this advanced option will not affect the length of the part in the BOM, reports, or CNC.

**XS_USE_MODEL_PREFIX_IN_MULTI_NUMBERS_FOR**

**Category** Numbering

Use to allow the prefixes used in part and assembly numbering to be used in multidrawing numbers. Enter any of the following options: NONE, ASSEMBLIES, PARTS, and ASSEMBLIES_AND_PARTS. The default value is ASSEMBLIES_AND_PARTS.

This advanced option is model-specific and the setting is saved in the options database.

**Example** If you set this advanced option to PARTS, the multitudes for parts appear as 101Pa.

**XS_USE_MULTI_NUMBERING_FOR**

**Category** Numbering

Use to define if multinumbering affects assemblies, parts, or both. Part and assembly numbering must be based on drawing numbers to use multinumbering.

The options are:

- **NONE**: No assemblies or parts will get multi-numbered, even if linked to multidrawings.
- **ASSEMBLIES**: Assemblies will get multinumbered, but parts will not. This is the default US Imperial Steel setting.
- **PARTS**: Only parts will get multinumbered. Common if you are creating drawings for assemblies one per sheet, and handling parts on large collection sheets grouped by plates, or angles, for example.
- **ASSEMBLIES_AND_PARTS**: Both assemblies and parts will get multinumbering, but how is determined by workflow and other settings.
The default value is `ASSEMBLIES_AND_PARTS`.

Do not change the value during a project.

This advanced option is model-specific and the setting is saved in the options database.

**XS_USE_MULTI_NUMBERING_WHEN_COPYING_DRAWING_VIEWS**

*Category:* Numbering

Set this advanced option to `TRUE` to use multinumbering when copying drawing views. If you do not want to use multinumbering, set it to `FALSE`. The default value is `FALSE`.

This advanced option is user-specific and the setting is saved in `options.bin` under user folder. Restart Tekla Structures to activate the new value.

**XS_USE_NEW_PLATE_DESIGNATION**

*Category:* Plate Work

Use this advanced option to control if the width and length are switched in parts if the width is greater than the length. The options are:

- Not used at all (value is blank or `FALSE`).
- To use this advanced option only for steel parts, set it to `FOR_STEEL_PARTS_ONLY`.
- Used for all parts. To achieve this, use any value except `FALSE` or `FOR_STEEL_PARTS_ONLY`. `TRUE` is recommended.

This advanced option is role-specific. When the type `SYSTEM(ROLE)` is in use, the default value is used. When the type `MODEL(ROLE)` or `DRAWING(ROLE)` is in use, you can change the value, which is then the same for all users in the current model.

**Example**

A concrete beam with profile BL15*240 and the distance between beam endpoints is 215 mm:

- If `XS_USE_NEW_PLATE_DESIGNATION` is set to `TRUE`, the length of the beam is fixed at 240, and the beam profile changes to BL15*215.
- If `XS_USE_NEW_PLATE_DESIGNATION` is set to `FALSE` or `FOR_STEEL_PARTS_ONLY`, the length of the beam is to 215 and the profile remains BL15*240.

A steel beam with profile BL15*240 and the distance between beam endpoints is 215 mm:
• If XS_USE_NEW_PLATE_DESIGNATION is set to TRUE or FOR_STEEL_PARTS_ONLY, the length of the beam is fixed at 240, and the beam profile changes to BL15*215.

• If XS_USE_NEW_PLATE_DESIGNATION is set to FALSE, the length of the beam is to 215 and the profile remains BL15*240.

**XS_USE_NEW_WELD_PLACING**

**Category** WELDS

If you have set welds visible in the drawing, this advanced option affects in which drawing view (front, back, top, or bottom) Tekla Structures draws the welds.

• When the advanced option is set to TRUE, Tekla Structures draws welds in the view that has the best visibility to the secondary part (default).

• When the advanced option is set to FALSE, Tekla Structures selects the view according to the main part.

This advanced option is model-specific and the setting is saved in the options database.

See also

**XS_USE_NEW_USNOTCH**

**Category** COMPONENTS

Use to indicate whether to locate the horizontal cut of a notch above or below the flange of the main beam. The default value is TRUE. If you do not want to use the US style notch, set this advanced option to FALSE.

Used with the following notching options:

This advanced option is model-specific and the setting is saved in the options database.

**XS_USE_NUMBER_SELECTED_FOR_DRAWING_CREATION_AND_UPDATE**

**Category** NUMBERING

If numbering is not up-to-date when you create a drawing, Tekla Structures prompts for numbering. Set this advanced option to TRUE to number only the assemblies and parts that have the same numbering series as the selected part (or the main part of the selected
drawing). When set to TRUE, this advanced option does the same as the command **Drawings & Reports --> Numbering --> Number Series of Selected Objects**. TRUE is the default value.

If you set this advanced option to FALSE, Tekla Structures numbers the whole model, which is the same as selecting **Drawings & Reports --> Numbering --> Number Modified Objects**.

This advanced option is model-specific and the setting is saved in the options database.

**XS_USE_NUMERIC_MULTI_NUMBERS_FOR**

**Category** Numbering

Use to define which objects have numeric multi-numbers. The options are:

- ASSEMBLIES
- PARTS
- ASSEMBLIES_AND_PARTS
- NONE

This advanced option is model-specific and the setting is saved in the options database.

**Example**

If you set this advanced option to PARTS, Tekla Structures displays the multinumber as e.g. 101/1. If you also set the advanced option **XS_USE_MODEL_PREFIX_IN_MULTI_NUMBERS_FOR** to PARTS, Tekla Structures replaces the slash character with the part prefix, for example 101P1.

**XS_USE_OLD_DRAWING_CREATION_SETTINGS**

This advanced option can be set in initialization files.

Set the advanced option **XS_USE_OLD_DRAWING_CREATION_SETTINGS** to TRUE to use old drawing functionality and old drawing view property dialog boxes and subdialog boxes. In this old approach, drawing object properties can be defined on both drawing and view level, not individually for each view, like in the new view-level approach. By default, this advanced option is not in use, and is marked with **rem env_global_default.ini** located in the ```..\ProgramData\Tekla Structures\<version>\environments\common\folder```.

Where to change the value depends on your company or project size, and on which level you need to unify certain enterprise-level settings. You can set this advanced option to TRUE in the **options.ini** file under the current model folder, or use your company’s own **company.ini** file, your company’s own **role.ini** file, or the **options.ini** file in firm or project folders.
**XS_USE_OLD_PLOT_DIALOG**

**Category** Printing

Set this advanced option to TRUE to use Printer Catalog and Tekla Structures own printer instances in printing.

The default value is FALSE.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

---

**XS_USE_OLD_POLYBEAM_LENGTH_CALCULATION**

**Category** Dimensioning: Unfolding

Set this advanced option to TRUE to calculate polybeam length using the legacy method where lengths of straight parts are added together, without taking the unfolding into account. If you set it to FALSE (default) and use the new method, the polybeam length is defined by unfolding the polybeam first and then calculating the length. This way of calculating gives a more accurate value for the polybeam length.

This advanced option is model-specific and the setting is saved in the options database.

> Using this advanced option is not recommended, because the length may not be reported correctly in all cases, especially for polybeams with curved chamfers.

> When you switch on this advanced option, other ways to calculate polybeam length are not used by Tekla Structures, for example,

- XS_CALCULATE_POLYBEAM_LENGTH_ALONG_REFERENCE_LINE
- XS_DONT_USE_NEUTRAL_AXIS_FOR_RADIUS

or the unfold parameter settings in file unfold_corner_rations.inp.

---

See also [XS_CALCULATE_POLYBEAM_LENGTH_ALONG_REFERENCE_LINE on page 58](#)

---

**XS_USE_ONLY_INCHES_IN_SHEET_SIZES**

**Category** Imperial Units

Set this advanced option to TRUE to have sheet sizes in layouts and drawing lists in inches. To have the sheet sizes in feet and inches, set it to FALSE (default).
In order for this advanced option to work, set the advanced options XS_IMPERIAL and XS_IMPERIAL_INPUT to TRUE.

This advanced option is model-specific and the setting is saved in the options database.

**XS_USE_ONLY_INCHES_IN_WELD_LENGTH**

**Category** Imperial units

Set this advanced option to TRUE to only display inches in weld length symbols. If you do not want to do this, set this advanced option to FALSE. This advanced option only works when the imperial units are in use. The default value is TRUE.

When you only display inches means that instead of showing 1ft 2inch it shows 14inch, for example.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**XS_USE_ONLY_NOMINAL_REBAR_DIAMETER**

**Category** Concrete Detailing

Nominal diameter is the diameter used for calculating the cross section area of the reinforcing bar. Actual diameter takes into account the ribs, and tells the smallest hole diameter where the bar fits.

Values used for nominal and actual diameter are defined in rebar_database.inp, which is located in the environment folders in \&lt;environment&gt;\profil.

Set the advanced option to TRUE to use nominal diameter. To use the actual diameter set this advanced option to FALSE. The default value is FALSE.

When the advanced option is set to FALSE, and you open a model created earlier than Tekla Structures version 18, the center line of the reinforcing bars stays in place and the concrete cover is reduced. All bending dimensions of the reinforcing bar increase. To solve this problem, either set the advanced option to TRUE or modify the concrete covers of all reinforcing bars to the correct value.

When reinforcing bars are exported to Unitechnik, you can select to export either nominal or actual diameters. For other exports (for example, BVBS), the nominal diameter is always used in the exported definitions regardless of this advanced option.

---

Do not change this option during a project.

Changing the advanced option also changes the modeled reinforcing bars. This means that if the actual diameter will be used, the reinforcing bar looks thicker in the model. To accommodate for the thicker reinforcing bar, Tekla Structures will
automatically change also concrete cover thickness. When you change the option, Tekla Structures changes the concrete cover values after next restart.

This advanced option is role-specific. When the type SYSTEM(ROLE) is in use, the default value is used. When the type MODEL(ROLE) or DRAWING(ROLE) is in use, you can change the value, which is then the same for all users in the current model.

**XS_USE_OPENING_SYMBOL_IN_BORDER_HOLES**

**Category**  
Drawing Properties

Use **XS_USE_OPENING_SYMBOL_IN_BORDER_HOLES** to select whether to use the opening/recess symbol in openings located at part borders.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRUE</td>
<td>Opening symbol is used in the openings and recesses located at the border of the part. The symbol used depends on the setting of the advanced option XS_USE_CROSS_FOR_OPENING_SYMBOL.</td>
</tr>
</tbody>
</table>

![Diagram of XS_USE_OPENING_SYMBOL_IN_BORDER_HOLES symbol]
<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FALSE</td>
<td>No opening symbol is used for openings and recesses at the border of the part.</td>
</tr>
<tr>
<td>This is the default.</td>
<td></td>
</tr>
</tbody>
</table>

This advanced option is model-specific and the setting is saved in the options database.

See also [XS_USE CROSS FOR OPENING_SYMBOL on page 312](#)

### XS_USE_OPENING_SYMBOL_IN_CORNER_HOLES

**Category** Drawing Properties

Use `XS_USE_OPENING_SYMBOL_IN_CORNER_HOLES` to select whether to use the opening/recess symbol in openings located in part corners.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRUE</td>
<td>Opening symbol is used in the openings and recesses located in the corner of the part. The symbol used depends on the setting of the advanced option <code>XS_USE CROSS FOR OPENING_SYMBOL</code>.</td>
</tr>
</tbody>
</table>

Alphabetical list of advanced options 325 U
<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FALSE</td>
<td>No opening symbol is used for openings and recesses in the corner of the part.</td>
</tr>
<tr>
<td>This is the default.</td>
<td></td>
</tr>
</tbody>
</table>

This advanced option is model-specific and the setting is saved in the options database.

**See also**  
XS_USE_CROSS_FOR_OPENING_SYMBOL on page 312

**XS_USE_PLATE_SIDE_POSITIONING**

**Category**  
Dimensioning: Parts

Set this advanced option to TRUE to make the position dimension of plates dependent on the position of the plates in the model. When a plate is positioned underneath the work plane, Tekla Structures will place the position dimension on the top face of the plate. The default value is FALSE.

This advanced option is model-specific and the setting is saved in the options database.

**XS_USE_POINT_AS_SEPARATOR_IN_PROFILE_NAME**

**Category**  
Profiles

Set this advanced option to TRUE to use the period character (.) as the separator in parametric profile names, instead of using it as a decimal separator. This increases the number of separators available in the US imperial environment. The default value is FALSE.

This advanced option is model-specific and the setting is saved in the options database.

**XS_USE_ROUND_MAIN_PART_COORDINATES_FOR_SECONDARY_PART_ANGLE**

**Category**  
Dimensioning: Parts
Set to TRUE to have the secondary part skewed dimensions and angle dimension use one of the main part directions if the main part profile is round or round tube. The default value is TRUE.

This advanced option is model-specific and the setting is saved in the options database.

**XS_USE_SCREW_POINT_ELEVATION_DIM**

**Category**  Dimensioning: Bolts

Set this advanced option to TRUE to display the elevation dimensions of a column to the working points of a neighboring part. If you set it to FALSE, the elevation dimensions are displayed at the ends of the column. The default value is FALSE.

This advanced option is model-specific and the setting is saved in the options database.

**Example**  An example, where the value is TRUE:

![Diagram example where the value is TRUE]

An example, where the value is FALSE:

![Diagram example where the value is FALSE]
**XS_USE_SMALLER_GUSSET_PLATE**

**Category**: Components

Set this advanced option to **TRUE** to minimize the size of rectangular gusset plates created by gusset connections. You can create smaller gusset plates by using a single bracing and secondary bolts dimensioned to the middle of the secondary part. Tekla Structures generates a triangular gusset plate when the main part is located between diagonals. The default value is **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.

**XS_USE_SMOOTH_LINES**

**Category**: Model View

Set this advanced option to **TRUE** to use anti-aliasing to minimize jagged edges in rendered views. Before using this advanced option, check that your display adapter supports anti-aliasing. The default value is **FALSE**.

This advanced option is user-specific and the setting is saved in `options.bin` under user folder. Restart Tekla Structures to activate the new value.

**XS_USE_SOFTWARE_RENDERING**

**Category**: Model view

Set this advanced option to **TRUE** to bypass your graphic adapter in rendered views. Use this advanced option if you have problems with your display (for example, lines are not drawn correctly). The default value is **FALSE**.

This advanced option is user-specific and the setting is saved in `options.bin` under user folder. Restart Tekla Structures to activate the new value.

**XS_USE_SPECIAL_FILLER_PLATE_THICKNESS**

**Category**: Profiles

Set this advanced option to **TRUE** to have shim plate thicknesses comply with Japanese standards. The default value is **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.
XS_USE_TUBE.Inner_LENGTH_IN_DIMENSIONING

**Category**: Dimensioning: Parts

Set to **TRUE** to dimension the overall length of tube profiles along the inner surface instead of outer surface. The default value is **FALSE**.

This advanced option is model-specific and the setting is saved in the options database.

XS_USE_USABSOLUTE_ARROW_TYPE_FOR_ABSOLUTE_DIMENSIONS

**Category**: Dimensioning: General

Set this advanced option to **TRUE** to use the arrow shape US Absolute also for normal absolute dimensions. **FALSE** is the default value.

You can select the arrow shape from the US Absolute dimensions list on the Appearance tab in the dimension properties dialog box.

This advanced option is model-specific and the setting is saved in the options database.

XS_USE_USER_DEFINED_REBAR_LENGTH_AND_WEIGHT

**Category**: Concrete Detailing

Set this advanced option to **TRUE** to calculate the length and weight of the reinforcing bars in Rebar Shape Manager using formulas in the fields L and WEIGHT.

If you set this advanced option to **FALSE**, the length and the weight are automatically calculated according to the center line of the reinforcing bars. The default value is **FALSE**.

To read the length and weight from Rebar Shape Manager, you also have to set XS_USE_USER_DEFINED_REBARSHAPERULES to **TRUE**.

This setting only affects reports. If you set this advanced option to **TRUE** and you have not defined the formulas for length and weight in Rebar Shape Manager, the values in the reports show zero (0).

This advanced option is model-specific and the setting is saved in the options database.

XS_USE_USER_DEFINED_REBARSHAPERULES

**Category**: Concrete Detailing
Use this advanced option to define whether reinforcing bar bending shapes are recognized according to the bending shape definitions created with Rebar Shape Manager and saved in the RebarShapeRules.xml file.

This advanced option is set to TRUE by default, meaning that the bending shape recognition uses the reinforcing bar shapes saved in the RebarShapeRules.xml file.

If you set this advanced option to FALSE, the Rebar Shape Manager definitions are not used, and the definitions in rebar_schedule_config.inp are used instead. We recommend that you set this advanced option to TRUE and use Rebar Shape Manager.

This advanced option is model-specific and the setting is saved in the options database.

See also

**XS_USE_VERTICAL_PLACING_FOR_COLUMNS_IN**

**Category** Drawing Properties

Use to place columns vertically in drawings. Use the following options to specify the types of columns to place vertically:

- ASSEMBLY_DRAWINGS
- SINGLE_PART_DRAWINGS
- ASSEMBLY_AND_SINGLE_PART_DRAWINGS

This advanced option is model-specific and the setting is saved in the options database.

**XSUSERDATADIR**

**Category** This advanced option can be set in initialization files.

This advanced option is system-specific and is read from teklastructures.ini. Generally, there is no need to modify system-specific settings. Do not modify them if you are not an administrator.

**Example**

```
set XSUSERDATADIR=%LOCALAPPDATA%\Tekla Structures\<version number>. This means, for example in Windows 7, C:\Users\<user>\AppData \Local\Tekla Structures\<version>\UserSettings ✘.
```

**XS_USER_DEFINED_BOLT_SYMBOL_TABLE**

**Category** Marking: Bolts
Defines the location of the user-defined bolt symbol table file. For example, enter bolt_symbol_table.txt.

This advanced option is model-specific and the setting is saved in the options database.

See also

**XS_USER_DEFINED_PARAMETRIC_PROFILE_SEPARATORS**

**Category** Profiles

Use this advanced option to define additional separators to separate dimensions in the names of parametric profiles. The separators can consist of multiple characters.

Separate the values with commas, for example GA, ABC.

Follow these rules in naming:
- Use uppercase letters in separator names.
- Do not enter digits, commas, or special characters in separator names.
- Do not start separator names with a dash (-) or full stop (.)
- Do not start separator names with an inch separator (", ", "/) when using imperial units.

In addition to these characters, Tekla Structures always recognizes the standard separator characters X, *, -, and /, and also the character defined by the advanced option **XS_PARAMETRIC_PROFILE_SEPARATOR** on page 223.

**XS_USER_SETTINGS_DIRECTORY**

**Category** This advanced option can be set in initialization files. It is system-specific.

This advanced option is set as a Windows environment variable in the Windows system properties.

The path to the folder that contains the user.ini file and the options.bin file.

The default value is %XSUSERDATADIR%\UserSettings\%

See also **XSUSERDATADIR** on page 330

2.21 V
XS_VALID_CHARS_FOR_ASSEMBLY_FAMILY_POSITION_NUMBERS

Category Numbering

Specifies valid letters for assembly family position numbers. You must specify all the valid letters in this advanced option. By default, the letters A-Z are valid.

For example, you might not want to use D, because it is easy to mix up with O and 0. In this case you would enter letters A-Z but leave out D.

This advanced option is model-specific and the setting is saved in the options database.

See also XS_ASSEMBLY_FAMILY_POSITION_NUMBER_FORMAT_STRING on page 39

XS_VALID_CHARS_FOR_ASSEMBLY_FAMILY_QUALIFIER

Category Numbering

Specifies valid letters for the assembly family number qualifier. You must specify all the valid letters in this advanced option. By default, the letters A-Z are valid.

For example, you might not want to use D, because it is easy to mix it up with O and 0. In this case you would enter letters A-Z but leave out D.

This advanced option is model-specific and the setting is saved in the options database.

Example XS_VALID_CHARS_FOR_ASSEMBLY_FAMILY_QUALIFIER=GHJKL

See also XS_ASSEMBLY_FAMILY_POSITION_NUMBER_FORMAT_STRING on page 39

XS_VALID_CHARS_FOR_ASSEMBLY_MULTI_NUMBERS

Category Numbering

Use to specify the valid letters for assembly multinumbers. You must specify all the valid letters in this advanced option. By default, letters A-Z are valid.

This advanced option is model-specific and the setting is saved in the options database.

Example XS_VALID_CHARS_FOR_ASSEMBLY_MULTI_NUMBERS=ABEG

XS_VALID_CHARS_FOR_ASSEMBLY_POSITION_NUMBERS

Category Numbering

Specifies valid characters for assembly position numbers. Enter all the valid letters, for example, ABEG. By default, letters A-Z are valid.

This advanced option is model-specific and the setting is saved in the options database.
XSVALID_CHARS_FOR_PART_MULTI_NUMBERS

**Category**  Numbering

Use to specify the valid letters for part multinumbers. You must specify all the valid letters in this advanced option. By default, letters a - z are valid.

This advanced option is model-specific and the setting is saved in the options database.

**Example**  XSVALID_CHARS_FOR_PART_MULTI_NUMBERS=abeg

XSVALID_CHARS_FOR_PART_POSITION_NUMBERS

**Category**  Numbering

Use to specify the valid characters for part position numbers. Enter all the valid letters. For example, ABEG. By default letters A - Z are valid.

This advanced option is model-specific and the setting is saved in the options database.

**See also**  XS_PART_POSITION_NUMBER_FORMAT_STRING on page 225

XS_VIEW_DIM_LINE_COLOR

**Category**  Model View

Use to change the dimension line color in rendered views. Define the color using RGB values: `<value for red> <value for green> <value for blue>`. Separate the values with spaces. Define the values on a scale of 0 to 1. The default values are 1.0 0.0 1.0.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**Example**  

<table>
<thead>
<tr>
<th>RGB value</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0 1.0 1.0</td>
<td>White</td>
</tr>
<tr>
<td>1.0 0.0 0.0</td>
<td>Red</td>
</tr>
<tr>
<td>0.0 1.0 0.0</td>
<td>Green</td>
</tr>
<tr>
<td>0.0 0.0 1.0</td>
<td>Blue</td>
</tr>
<tr>
<td>1.0 1.0 0.0</td>
<td>Yellow</td>
</tr>
</tbody>
</table>

Alphabetical list of advanced options  333
XS_VIEW_DIM_TEXT_COLOR

Category    Model View
Use to change the dimension text color in rendered views. Define the color using RGB values: `<value for red> <value for green> <value for blue>`. Separate the values with spaces. Define the values on a scale of 0 to 1. The default values are 0.0 0.0 0.0.
This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

<table>
<thead>
<tr>
<th>Example</th>
<th>RGB value</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.0 1.0 1.0</td>
<td>White</td>
</tr>
<tr>
<td></td>
<td>1.0 0.0 0.0</td>
<td>Red</td>
</tr>
<tr>
<td></td>
<td>0.0 1.0 0.0</td>
<td>Green</td>
</tr>
<tr>
<td></td>
<td>0.0 0.0 1.0</td>
<td>Blue</td>
</tr>
<tr>
<td></td>
<td>1.0 1.0 0.0</td>
<td>Yellow</td>
</tr>
</tbody>
</table>

XS_VIEW_FAST_BOLT_COLOR

Category    Model View
Use to define the color of bolts in rendered views when you are using the representation option Fast. Define the color using RGB (Red Green Blue) values. The scale is from 0 to 1. Separate the numbers with spaces. The default color is white 1.0 1.0 1.0.
This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

Example  To change the color to black, enter 0.0 0.0 0.0.

See also

XS_VIEW_FREE_MEASURE_PLANE

Category    Model View
Use to define the plane where the results of free measure are shown. You can have the distances displayed in the local and/or global coordinate system.
The possible values are VIEW, WORK and BOTH. The default value is VIEW.
If you set the advanced option to BOTH, only one value is shown if the values are identical.

**Example**  
In the following example, the advanced option has been set to BOTH:

![Diagram](image)

**XS_VIEW_HEIGHT**

**Category**  
Model View

Use to define the default height of views. Enter the value in pixels. The default value is 768. This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**XS_VIEW_PART_LABEL_COLOR**

**Category**  
Model View

Use to change the part label color in rendered views. Define the color using RGB values: `<value for red> <value for green> <value for blue>`. Separate the values with spaces. Define the values on a scale of 0 to 1. The default is black 0.0 0.0 0.0. This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.
### EXAMPLE

<table>
<thead>
<tr>
<th>RGB value</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0 1.0 1.0</td>
<td>White</td>
</tr>
<tr>
<td>1.0 0.0 0.0</td>
<td>Red</td>
</tr>
<tr>
<td>0.0 1.0 0.0</td>
<td>Green</td>
</tr>
<tr>
<td>0.0 0.0 1.0</td>
<td>Blue</td>
</tr>
<tr>
<td>1.0 1.0 0.0</td>
<td>Yellow</td>
</tr>
</tbody>
</table>

### XS_VIEW_POSITION_X

**Category**  Model View  
Use to define the default horizontal position of view windows. Origin is in the top left corner of the Tekla Structures or client window. Enter the position in pixels. The default value is 10. This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

### XS_VIEW_POSITION_Y

**Category**  Model view  
Use to define the default vertical position of view windows. Origin is in the top left corner of the Tekla Structures or client window. Enter the position in pixels. The default value is 10. This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

### XS_VIEW_TITLE_FONT

**Category**  Drawing View  
Use to specify the font for view direction marks. The default value is Arial. If this advanced option is not set, Tekla Structures uses the font specified for XS_DEFAULT_FONT.

If you want to change the view label font, go to View Properties --> Mark Contents and change the font.

**See also**  XS_DEFAULT_FONT on page 87
**XS_VIEW_WIDTH**

**Category** Model View

Use to define the default width for views. Enter the width in pixels. The default value is 1024.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**XS_VISUALIZE_VIEW_IN_ANOTHER_VIEWS**

**Category** Drawing View

Set this advanced option to TRUE if you want to highlight the view boundary of the selected view in another view. If you do not want to highlight the view boundary in another view, set this advanced option to FALSE. The default value is TRUE.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

**XS_VISUALIZE_VIEW_IN_FATHER_VIEW_ONLY**

**Category** Drawing View

Set this advanced option to TRUE if you want to visualize the section view and detail view boundary boxes only in the view where the section mark or the detail mark is located. If you set this advanced option to FALSE, the view boundary boxes are visualized in all of the views where this is possible and the boundary box fits inside the view to some extent. The default value is TRUE.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

See also **XS_VISUALIZE_VIEW_IN_ANOTHER_VIEWS** on page 337

**XS_VISUALIZE_VIEW_NEIGHBOUR_PART_EXTENSION**

**Category** Drawing View

Set this advanced option to TRUE to show neighbor part extensions in drawing views. If you set this advanced option to FALSE, the neighbor part extensions are not shown. The default value is TRUE.

When you select a view, the view extension for neighbor parts for that view is also shown in other views.
If neighbor parts are hidden by setting Neighbor parts to None in the Neighbor Part Properties dialog box, neighbor part extensions are not displayed even if you set this advanced option to TRUE.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

See also

2.22 W

**XS_WARP_MAX_ANGLE_BETWEEN_CS**

**Category** Concrete Detailing

Use to define the maximum angle between adjacent polygonal parts of the warped shape.

Enter the value in degrees. You get best results if you use values between 0.5 - 10.0. The default value is 0.5.

This advanced option is model-specific and the setting is saved in the options database.

**XS_WARP_MAX_DEVIATION**

**Category** Concrete Detailing

Use to define the maximum difference between real warped shape and the polygonal warped shape in the model.

Enter the value in millimeters. You get best results if you use values between 5.0 - 100.0. The default value is 10.0.

This advanced option is model-specific and the setting is saved in the options database.

**XS_WEB_PUBLISHING_TEMPLATE_DIRECTORY**

**Category** This advanced option can be set in initialization files.

Set in the user.ini file to define the location of the folder containing Web Viewer templates.
When you set this advanced option, Tekla Structures searches for Web Viewer templates only in the folder defined with this advanced option.

**XS_WELD_FILTER_TYPE**

**Category**: Welds

Use to define how Tekla Structures filters weld types.

- **EXACT**: Tekla Structures filters the welds equal to the default size in the **Welding properties** dialog box.
- **MIN**: Tekla Structures filters all welds equal to or smaller than the default size in the **Welding properties** dialog box. This is the default value.

This advanced option is model-specific and the setting is saved in the options database.

See also

**XS_WELD_FONT**

**Category**: Drawing Properties

Use to specify the font for weld text. The default value is Arial. If this advanced option is not set, Tekla Structures uses the default font defined for **XS_DEFAULT_FONT**.

See also **XS_DEFAULT_FONT on page 87**

**XS_WELDING_LENGTH_TOLERANCE**

**Category**: Welds

Use to specify the minimum edge length Tekla Structures should take into account when searching for a location for a weld. The default value is 30 mm.

This advanced option is model-specific and the setting is saved in the options database.
Use to define the maximum possible gap between two parts welded together. The default value is 30 mm.

This advanced option is model-specific and the setting is saved in the options database.

**XS_WELD_LENGTH_CC_SEPARATOR_CHAR**

**Category** Welds

Use this advanced option to set the separator character used in the weld symbol between the weld length and the pitch (center-to-center spacing) of weld segments. Enter @ to define the separator character according to the AISC standard (3@12). Enter - to define the separator character according to the ISO standard (100-300). The default value is -.

This advanced option is model-specific and the setting is saved in the options database.

**See also**

**XS_WELD_NUMBER_FORMAT**

**Category** Marking: General

Use to define the weld number format.

This advanced option is model-specific and the setting is saved in the options database.

**Example** In XS_WELD_NUMBER_FORMAT=W%3.3d:

- W is the prefix. The rest of the string defines the number format.
- The first number defines the minimum field width.
- The second number defines the minimum quantity of numbers to display.
- % and d (integer value) indicate the format.

**See also** XS_JOINT_NUMBER_FORMAT on page 189

**XS_WORKING_POINTS_VALID_ALSO_OUTSIDE_PART**

**Category** Dimensioning: Parts

Set this advanced option to TRUE to also draw reference dimensions for points outside part end points. The default value is FALSE.

This advanced option is model-specific and the setting is saved in the options database.
XS_ZERO_POINT_SYMBOL_OLD_WAY

Category Dimensioning: General

Set this advanced option to True to use RD marks containing a circle rather than the text RD to indicate the zero point of dimensions when you use US Absolute dimension types. By default, RD marks contain the text RD. The default value is False.

This advanced option is model-specific and the setting is saved in the options database.

XS_ZOOM_STEP_RATIO

Category Model View

Use to configure the Zoom in and Zoom out commands. The default value is 0.25. Increase this value to zoom more with a single mouse click.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

XS_ZOOM_STEP_RATIO_IN_MOUSEWHEEL_MODE

Category Model View

Set the zoom ratio when you are scrolling using the middle mouse button. Enter a decimal value. Increase the value to zoom more with a single mouse click. The default value is 0.05.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.

XS_ZOOM_STEP_RATIO_IN_SCROLL_MODE

Category Model View

Set the zoom ratio when scrolling and holding down the wheel. Enter a decimal value. Increase the value to zoom more with a single mouse click. The default value is 0.01.

This advanced option is user-specific and the setting is saved in options.bin under user folder. Restart Tekla Structures to activate the new value.
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