

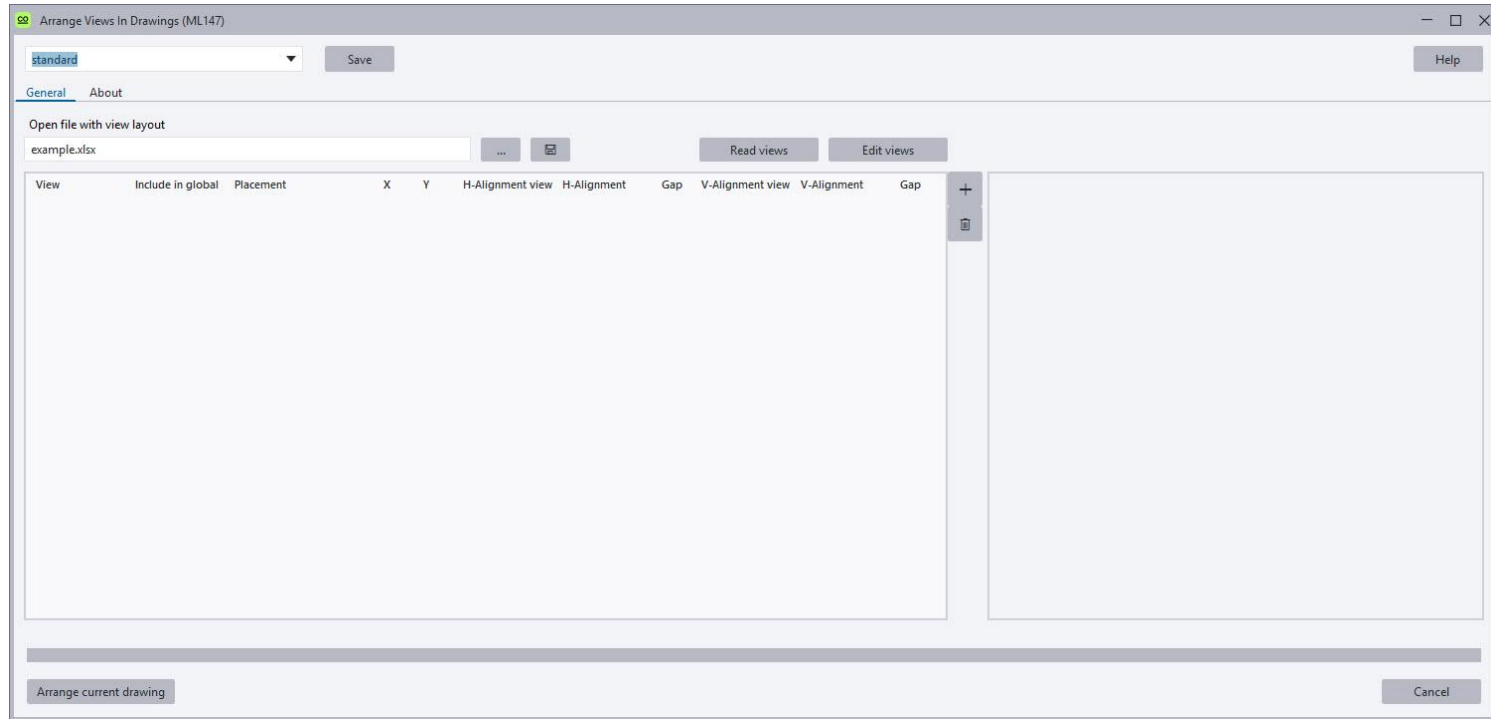
CS Installer

Tools 2025

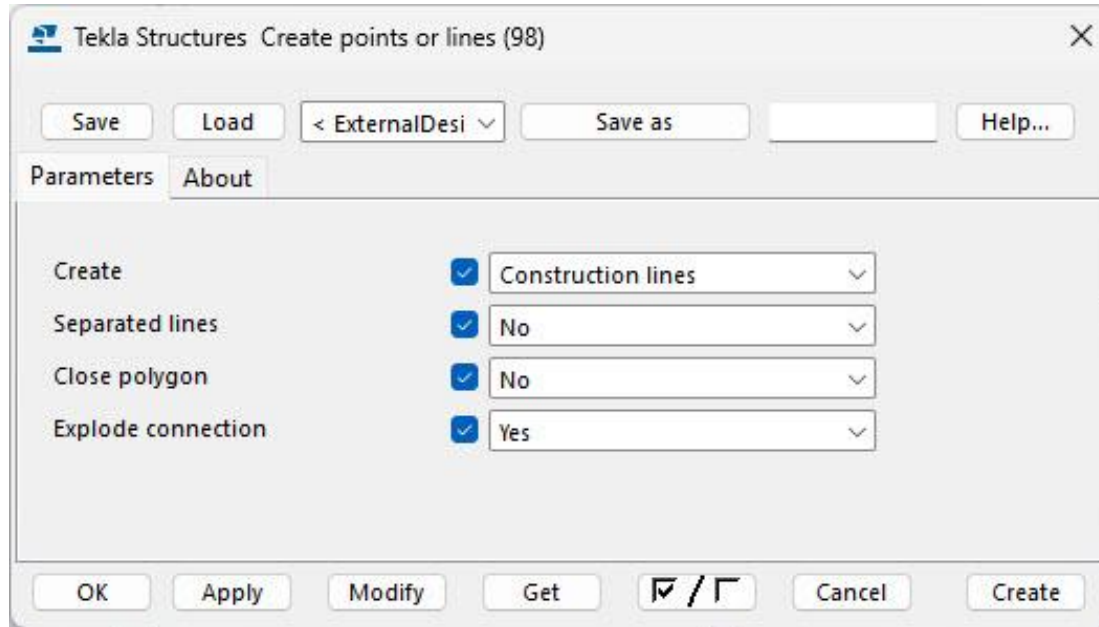
construsoft

Non segment

Arrange views in drawings (ML147)

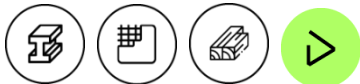
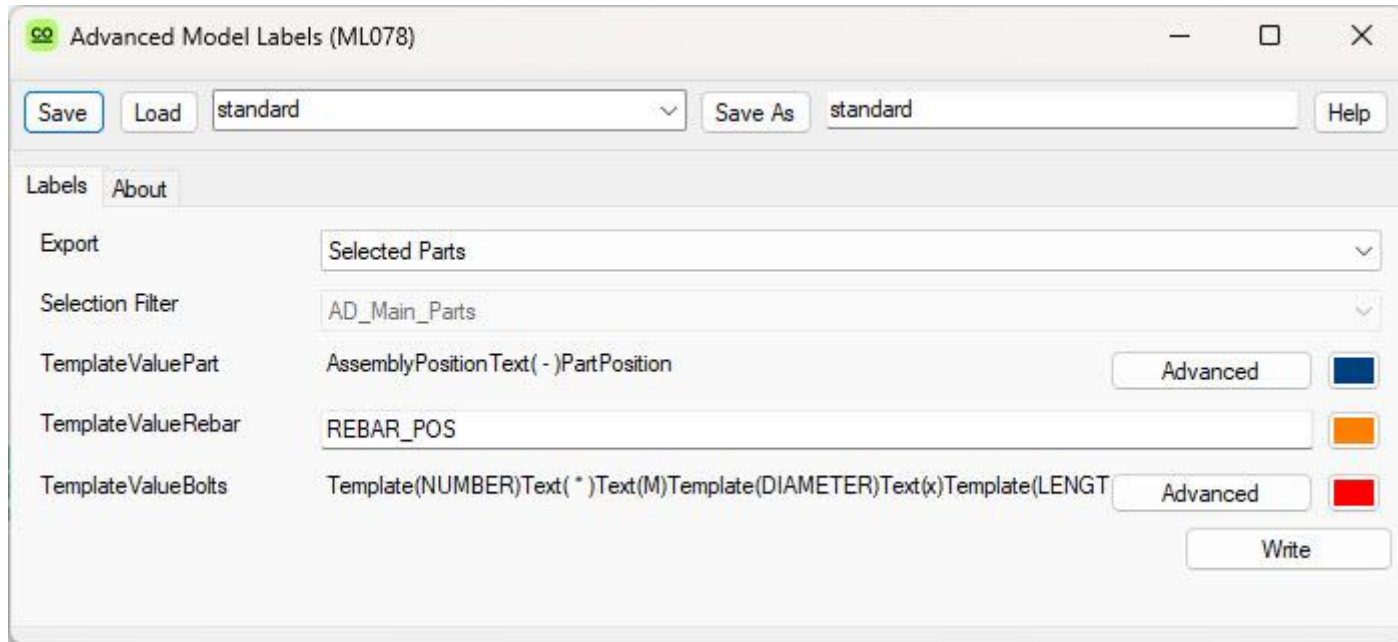


Create points or lines (98)



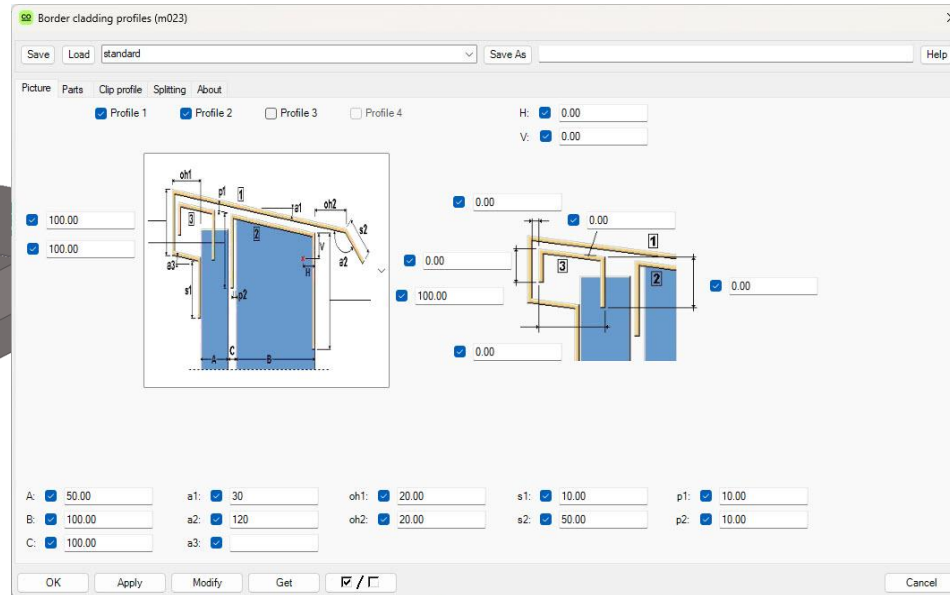
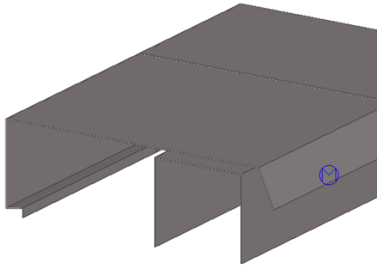
Advanced Model Labels (ML078)

- This tool creates labels in the model made by different kind of selections.



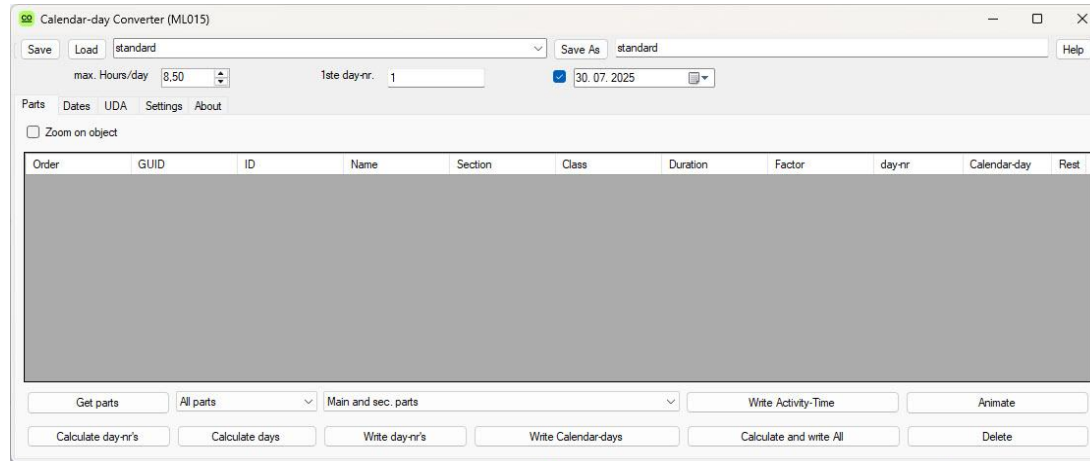
Border cladding profiles (m023)

- Cover profile made of plates of which an unfolded drawing can be generated.
- Placement by 2 points.



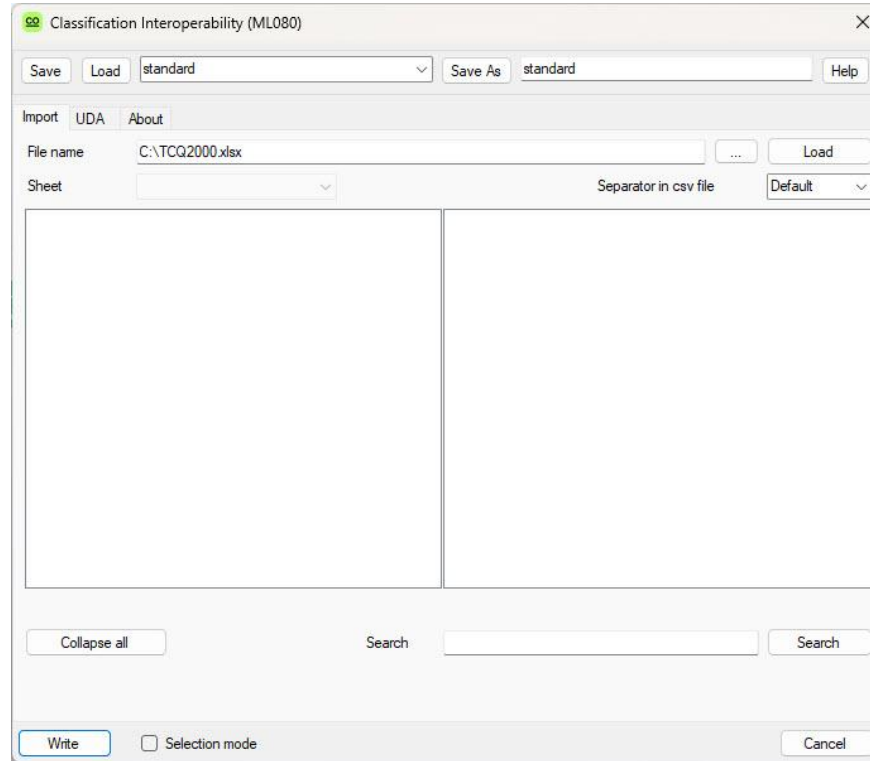
Calendar Day Converter (ML015)

- Determining and writing day numbers and data in user defined attributes for the assembly planning..
- On the basis of the mounting order and time the total mounting days and time are determined. Those values are written back to the user defined attributes of the parts.



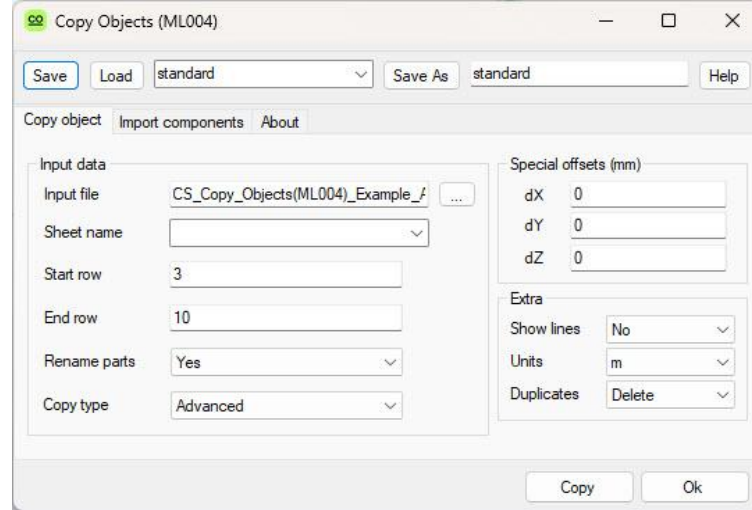
Classification Interoperability (ML080)

- This tool improve interoperability TEKLA and TCQ2000.



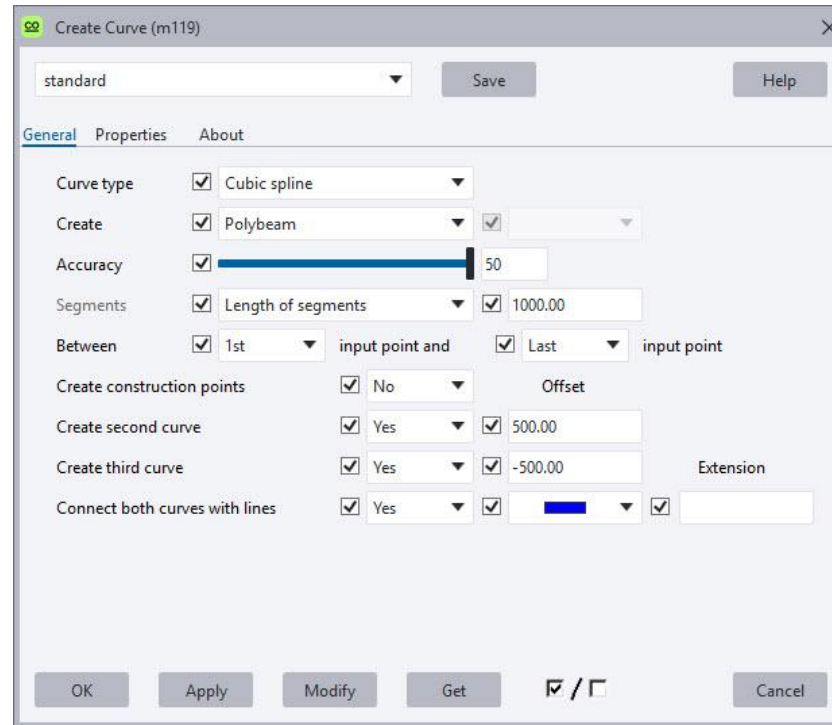
Copy Objects (ML004)

- Copy the object (s) and read thereby the to copy X, Y and Z-value from an Excel file.
- To use the ML004 tool the reference Interop.Excel should be added to the advanced options.



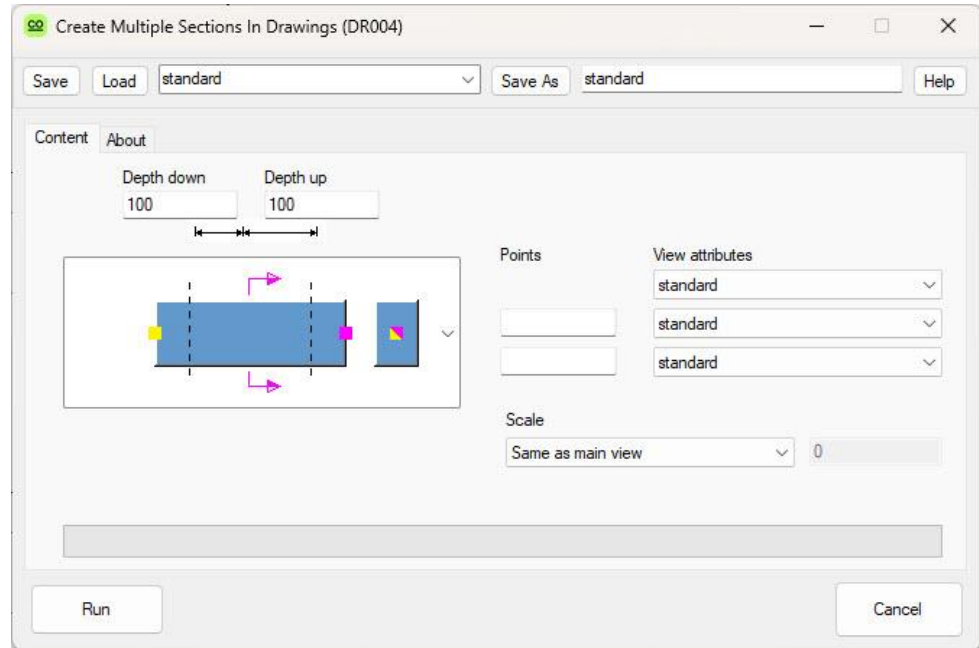
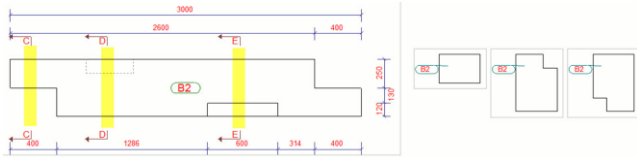
Create curve (m119)

- Creates a polybeam or construction lines curve by picking polygon points.



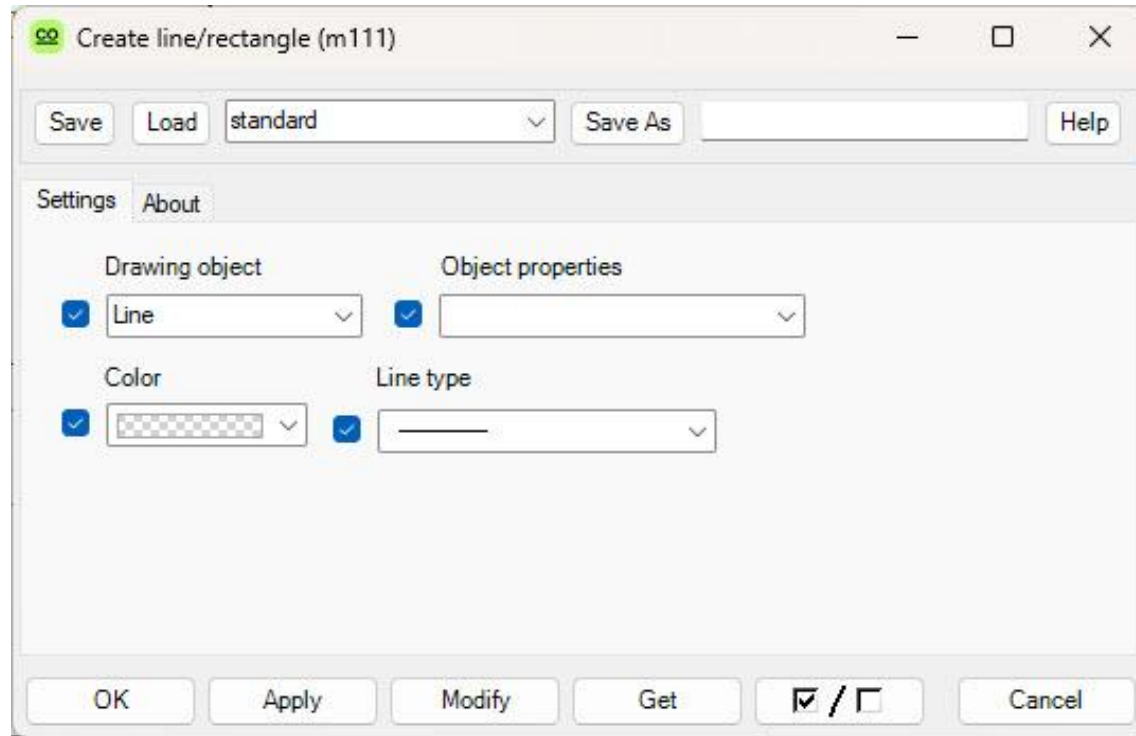
Create Multiple Sections in Drawings (DR004)

- Create section views on selected points.



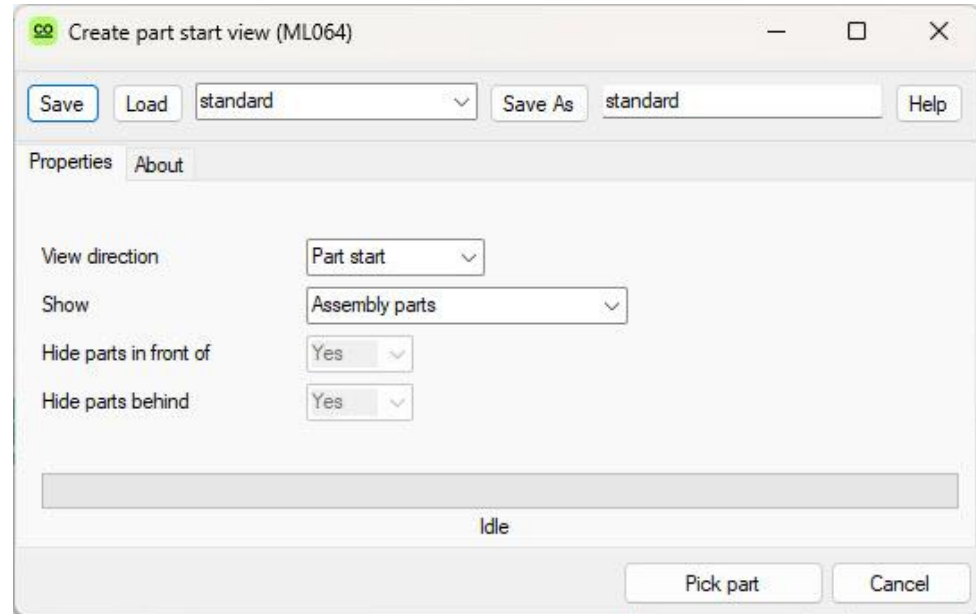
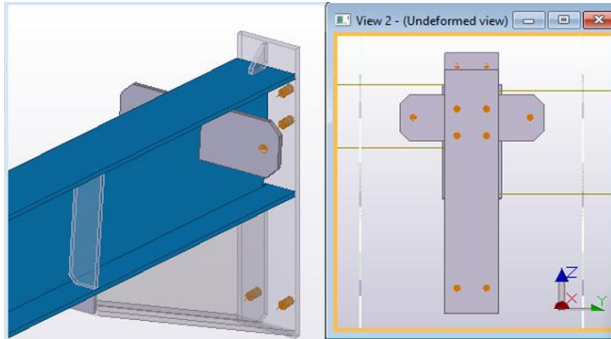
Create line rectangle (m111)

- Creates a line or rectangle as a mark.



Create part start view (ML064)

- Create model views from part start or end. Extra options for showing the whole assembly or only the part.



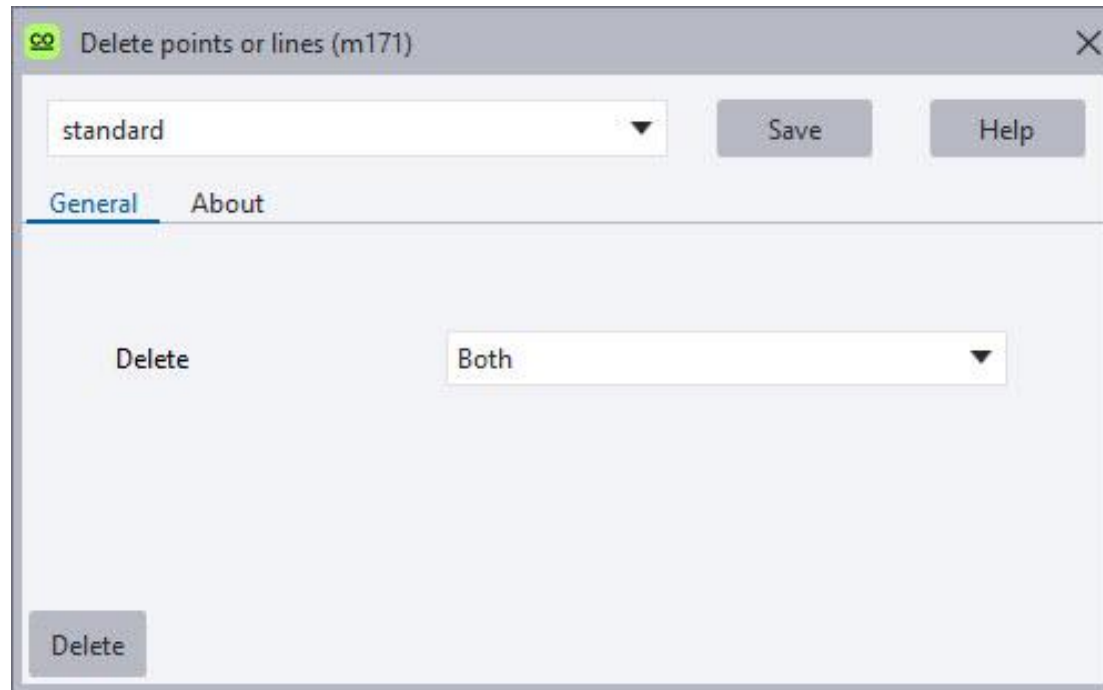
Curved beam converter (m174)

- Creates curved beam or multiple curved beams to polybeams.



Delete points or lines (m171)

- Enables deleting of construction lines, construction points, or both.



Design Group Numbering (ML002)

- Number functionality for customers with engineering module.
- Compares profile, length and number of UDA's.

The screenshot shows a software window titled "Construsoft - Design Group Numbering (ML002)". At the top, there are buttons for "Save", "Load", a dropdown menu currently set to "standard", a "Save as" field with "standard" entered, and a "Help" button. Below this is a section titled "Numbering settings". It contains a table with four columns: "Group filter", "Prefix", "Start number", and "Compare Length". The first row of the table has values: a dropdown arrow, "C", "1", and "NO". To the right of the table are four buttons: "Add group", "Delete group", "Move up", and "Move down". Below the table, there are several settings with input fields or radio buttons: "Length tolerance:" with a field containing "0", "Number separator:" with an empty field, "Number with letters:" with "No" selected, "Compare UDA:" with "No" selected, "Compare Finish:" with "No" selected, and "Renumber all:" with "Yes" selected. At the bottom of the window are three buttons: "Assign numbers", "Create report", and "Cancel".

Group filter	Prefix	Start number	Compare Length
▼	C	1	NO

Length tolerance: 0

Number separator:

Number with letters: ☒ No ☐ Yes

Compare UDA: ☒ No ☐ Yes

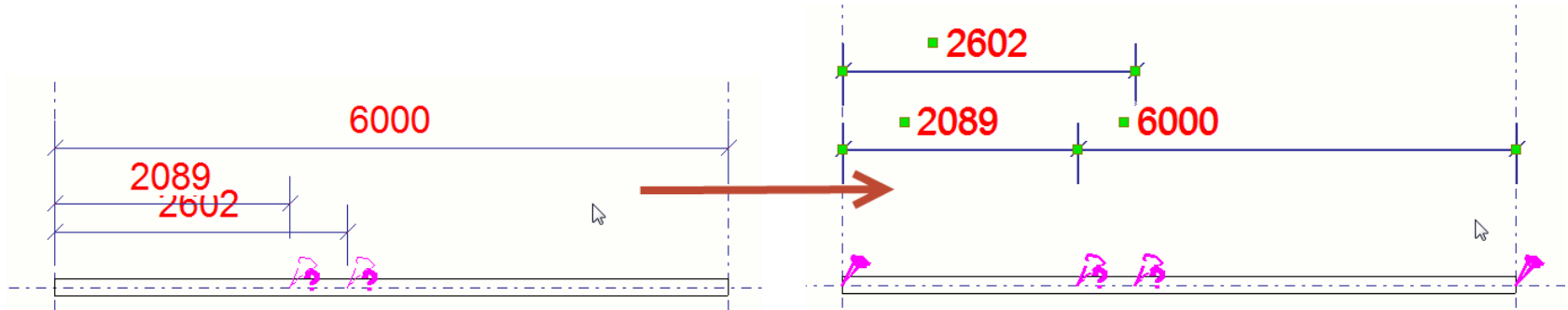
Compare Finish: ☒ No ☐ Yes

Renumber all: ☐ No ☒ Yes



Dim free and replace (ML505)

- Sets the place of the dimline on free and replaces the dimline(s).
- Select dim line(s) and execute the macro.



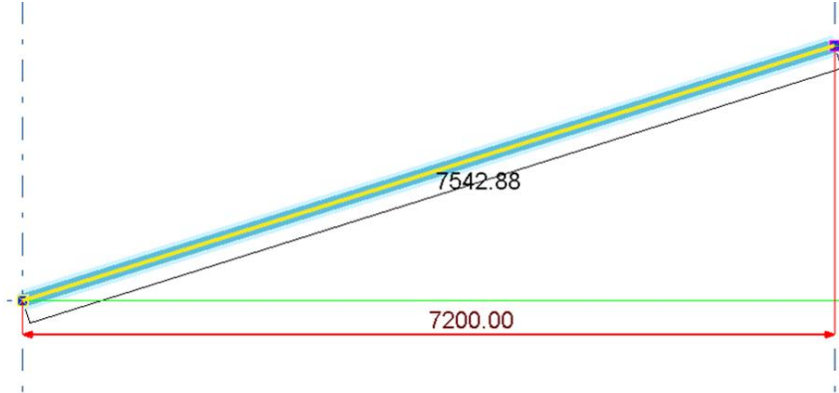
Dim free (ML504)

- Sets the place of the dimline on free.
- Select dim line(s) and execute the macro.



Distance Tool (ML030)

- Determines the distance, the increments along the current coordinate axes and in- and out-of-plane angles of either the vector between two selected points or of a selected beams system line.



Distance (ML030)

General About

Selected points

	X	Y	Z
Point1			
Point2			

Distance and increments

Distance	
dX	
dY	
dZ	

Angles

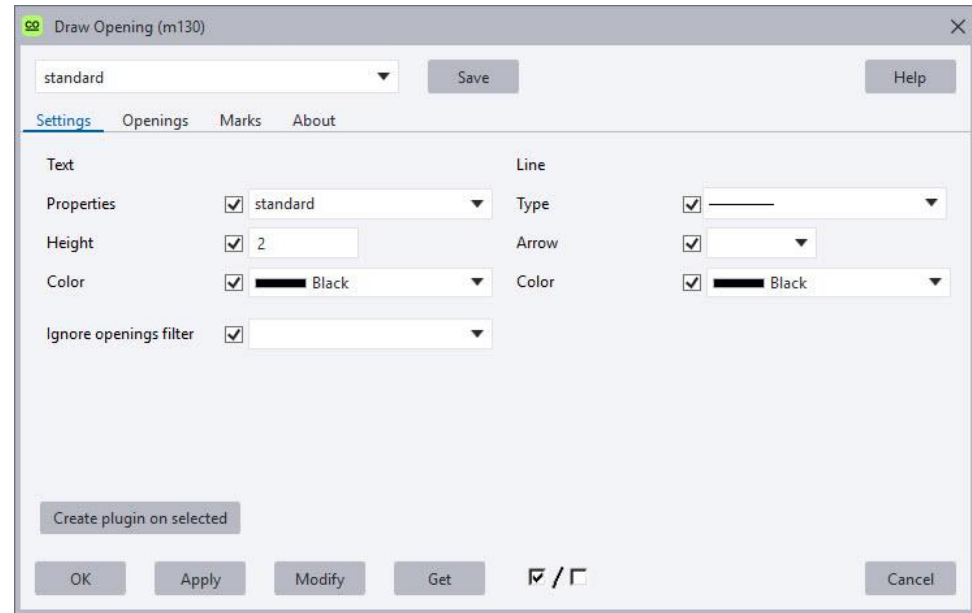
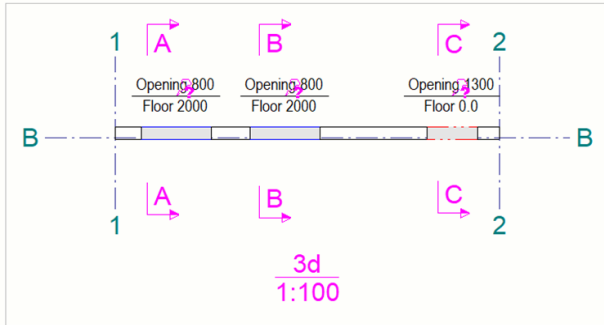
Angle in XY Plane	
Angle Out Of XY Plane	

Distance Profile Close



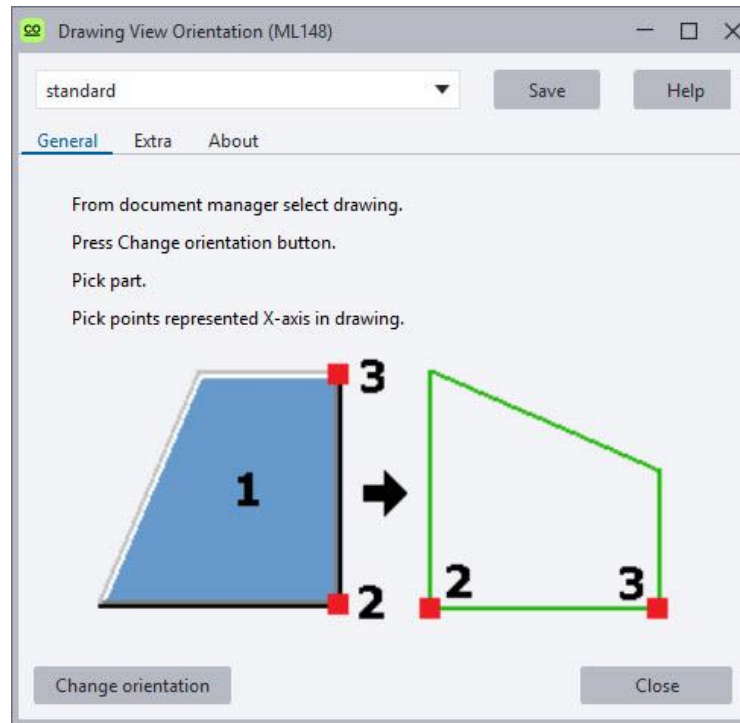
Draw opening (m130)

- Add marks and text for the openings (doors, windows, etc..) into the drawing.



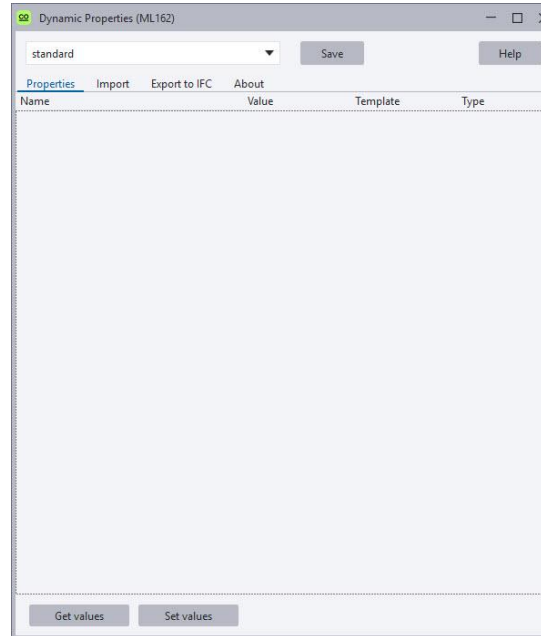
Drawing view orientation (ML148)

- Rotates selected drawings by two picked points.



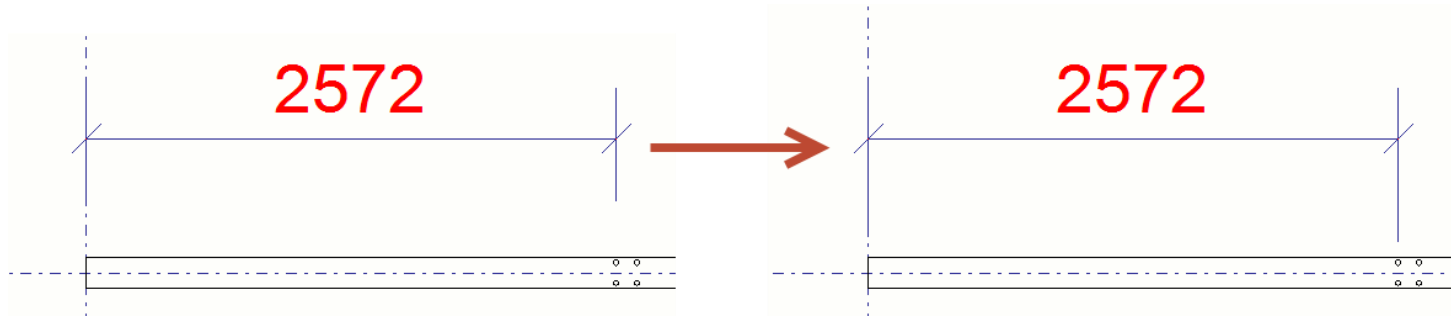
Dynamic properties (ML162)

- Set user defined classification and PSET (UDAs) distribution for model objects based on simple Excel file hierarchy.
- Classify objects based on user-defined UDA.
- Export to IFC.



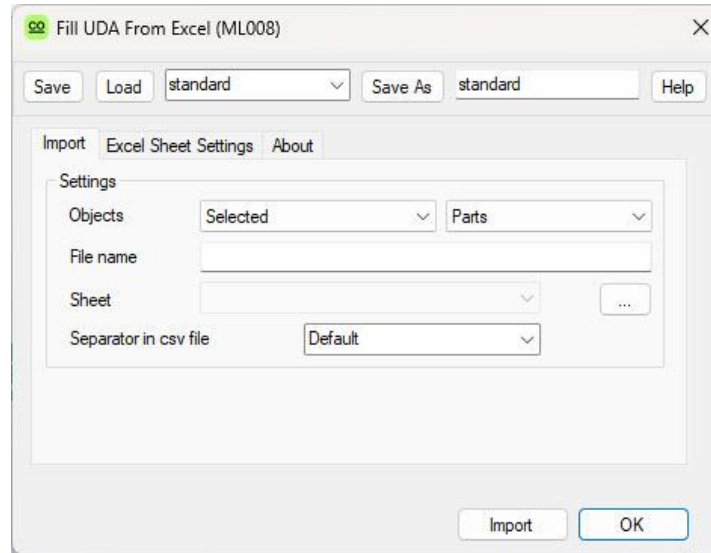
Exaggerate selected dimensions (ML515)

Sets long extension lines for the selected dimline(s).



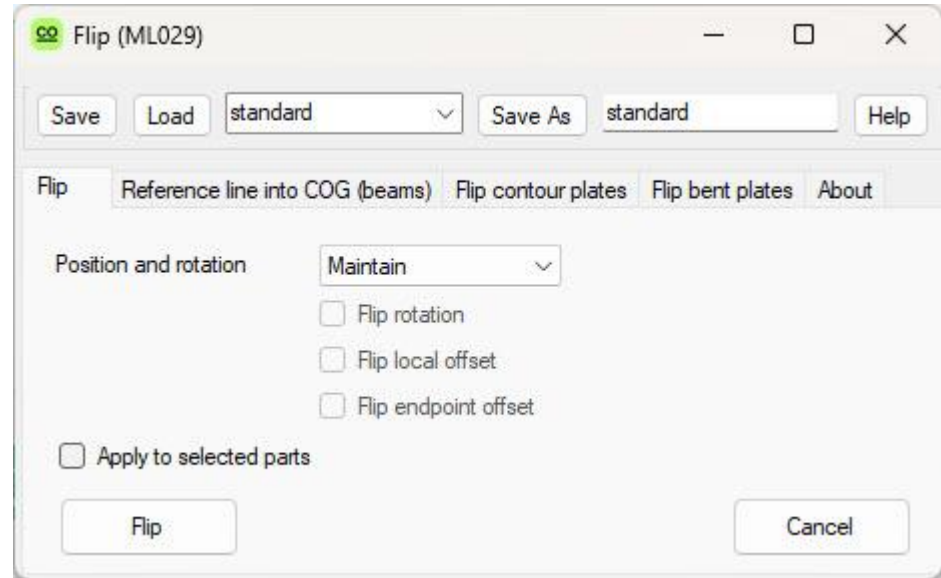
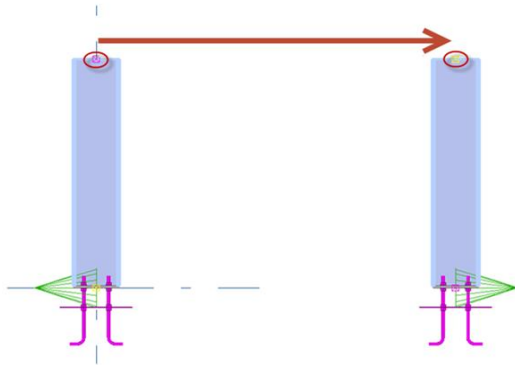
Fill UDA From Excel (ML008)

- This tool fills the UserDefinedAttributes of the model according to conditions defined in an Excel file.
- Practical application: Cost, Assembly Times, Item Numbers, planed - raw scrapes etc...



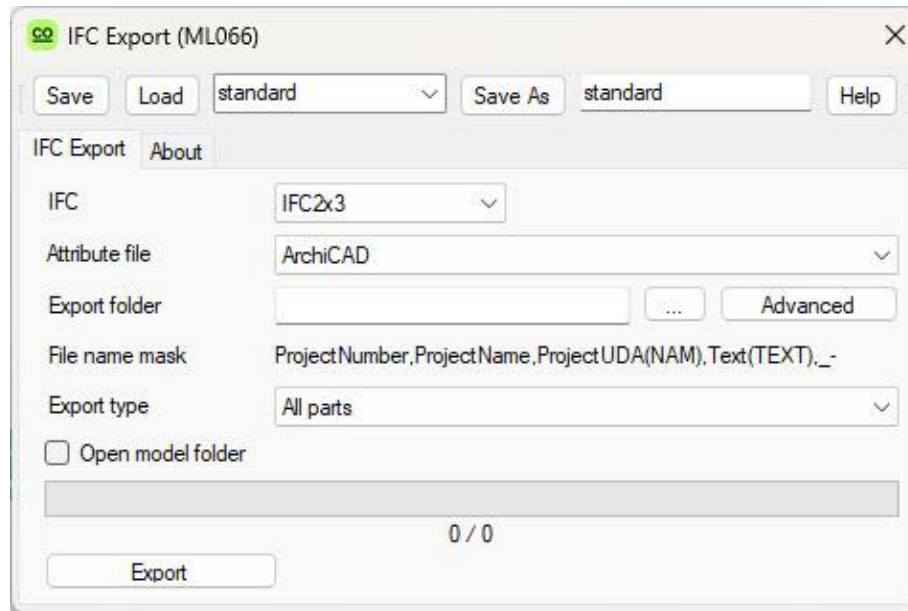
Flip Tool (ML029)

- On beams: Flips and/or shows the local x-coordinate.
- On contour plates: Manipulates and/or shows local coordinate system.



CS IFC Export (ML066)

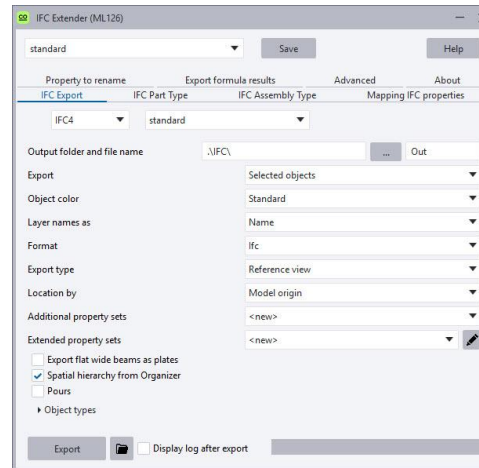
- Select the assemblies in the model. An IFC file is created for every assembly or part that is selected. The IFC can be used for import to welding robots.



IFC Extender (ML126)

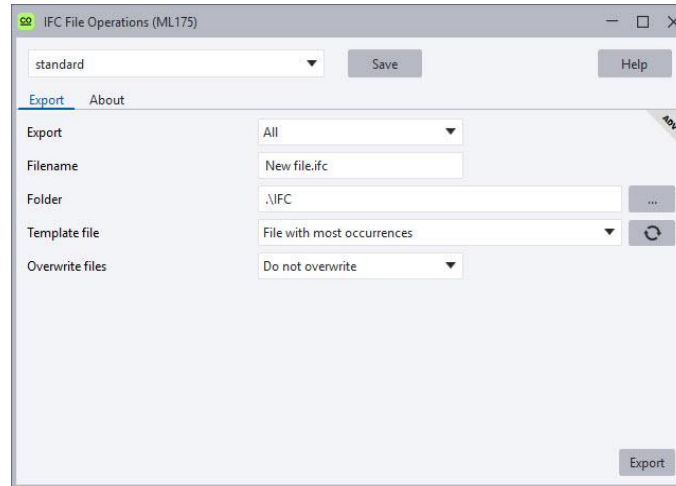
Workaround app to export:

- All IFC Entities not supported in Tekla (IfcDoor, IfcWindow, IfcStair).
- IfcEntityTypes (GATE, TRAPDOOR, CEILING...)
- PropertySets with names longer than 18 chars, including special characters etc...



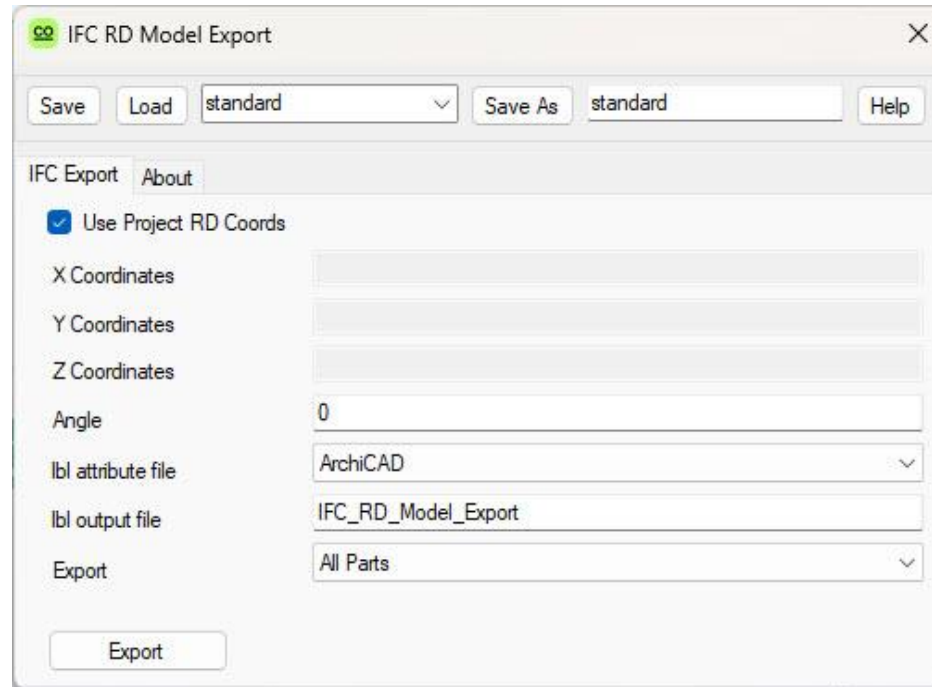
IFC file operations (ML175)

- Tool offers multiple IFC file manipulation options such as merging or splitting of IFC files.
- In the basic mode, the merging of all or selected IFC models or objects is possible.
- In advanced mode, the IFC files can be split, and extended options of objects selection can be used.



IFC RD Model Export (ML076)

- This tool exports the IFC with different coordinates then the current workplane in Tekla.



RFID Export Import (ML028)

- Export and import reference objects in model.
- Update and check whole model.

RFID Export Import (ML028)

Save Load standard Save As standard Help

Import Export About

File name Select file

Import Update UDA in TS Clear ☐ Check for import file every 10 minutes ☐ Check for import every day at

Next import starts in 600 seconds 0 h 0 m 0 s Current status: idle Zoom to selected objects ☐

Show log ☐ Open Log file

Control number	RFID number	Assembly number	Block number	House number	Level name	Assembly name	Planned start mounting	Planned end mounting	Actual start mounted	Actual end mounted	Approved	Note	Type	Subcontractor
----------------	-------------	-----------------	--------------	--------------	------------	---------------	------------------------	----------------------	----------------------	--------------------	----------	------	------	---------------



Loads on Drawing (DR006)

- The loads placed in the model are shown on drawing with this tool.

Loads On Drawings (DR006)

Save Load standard Save As standard Help

General Load ranges About

Add loads to only selecting views No

Add load value Yes Text attribute standard

Add load group name No

Point attribute File concrete Symbol 18 Color [Blue] Height 4

Line attribute standard Width 10 Use load ranges No

Polygon attribute standard Use load ranges No

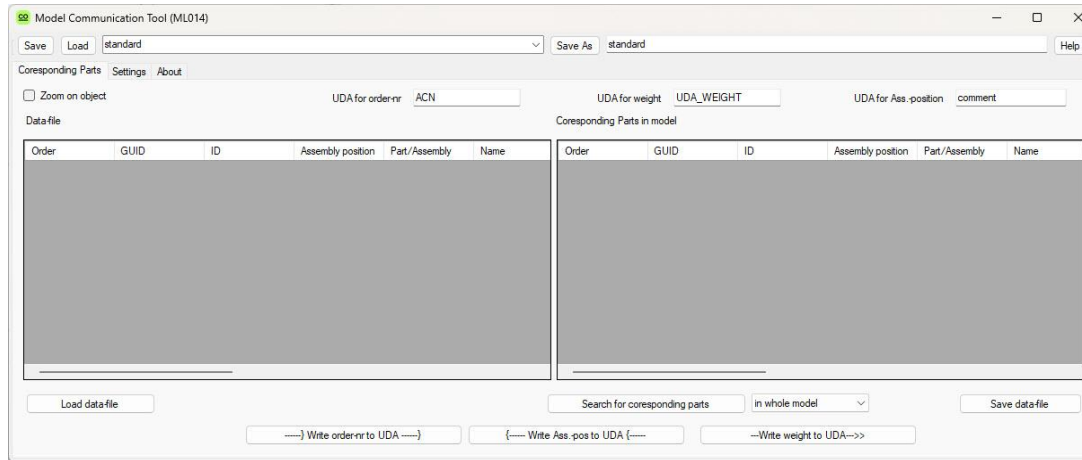
Exclude load groups by filter No standard

Create Close



Model Communication tool (ML014)

- Exchange of information between two separate models.
- For example, in one model is detailing modified and in the other model numbers are changed. A xml export is made (with the tool CS_UDA_Sequencer), this export is read and compared with the parts in the other model.



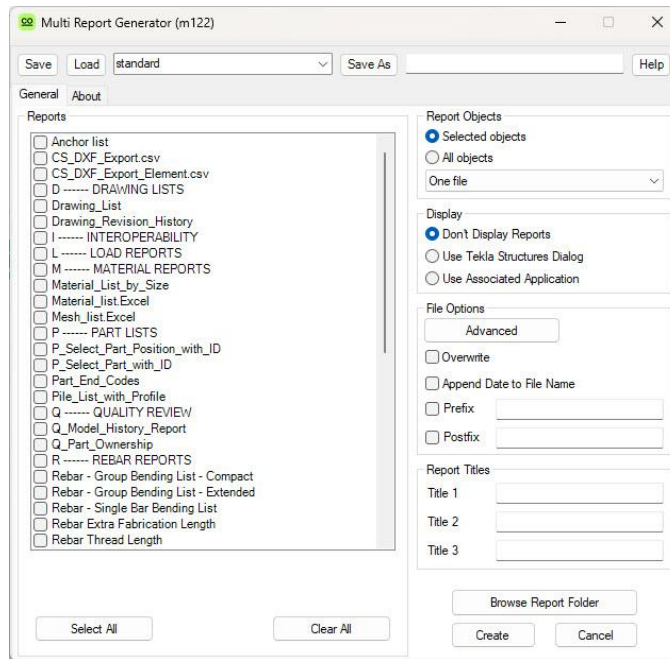
Modify Selected Connections (ML513)

- Select components and modify them by running this macro.



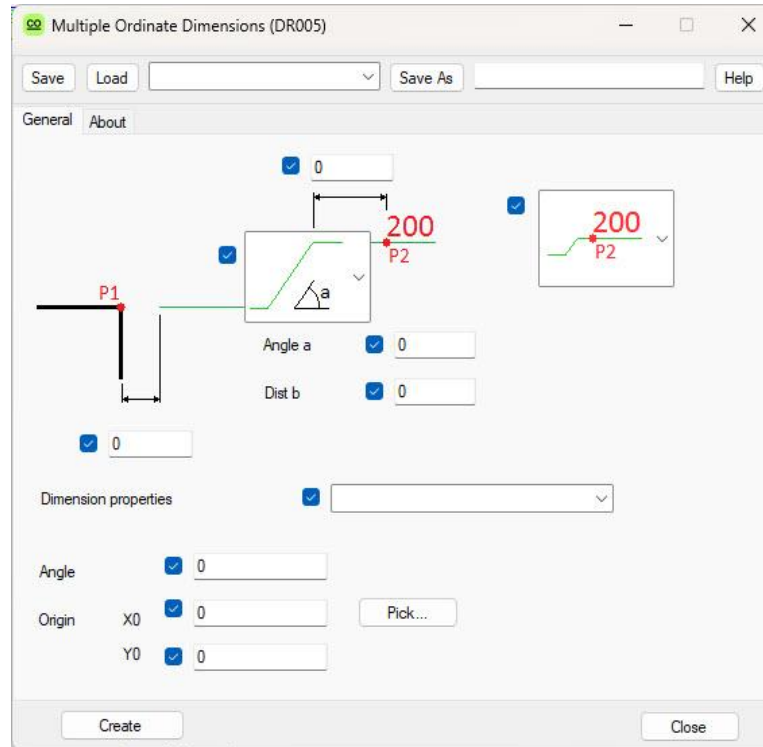
Multi Report Generator (m122)

- Create multiple reports by phase.
- It is possible to write the phase name into the file name.



Multiple Ordinate Dimensions (DR005)

- Create dimensions for objects from an alternative source.



Node Alignment (DR043)

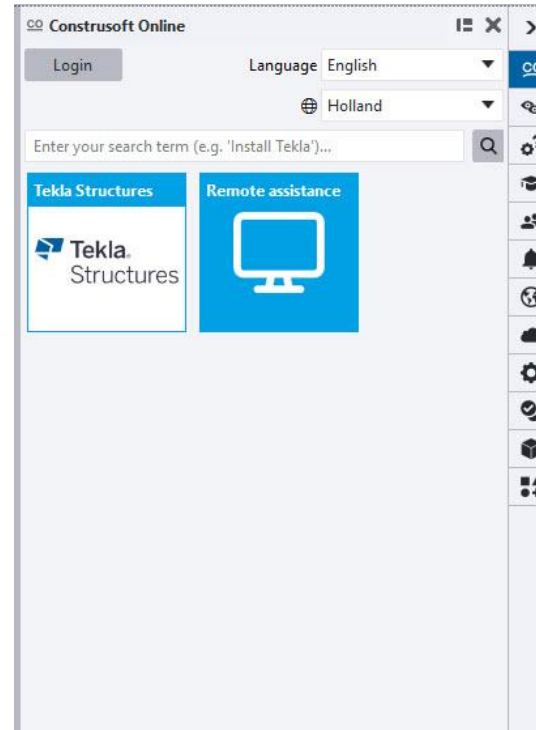
- Aligns labels and text in the drawing. Select multiple labels, choose an option and then a point in the drawing.



Construsoft online

Tekla Online side pane provides a shortcut access to these Tekla Online services:

- Tekla User Assistance
- Tekla Discussion Forum
- Tekla Campus
- Tekla Warehouse

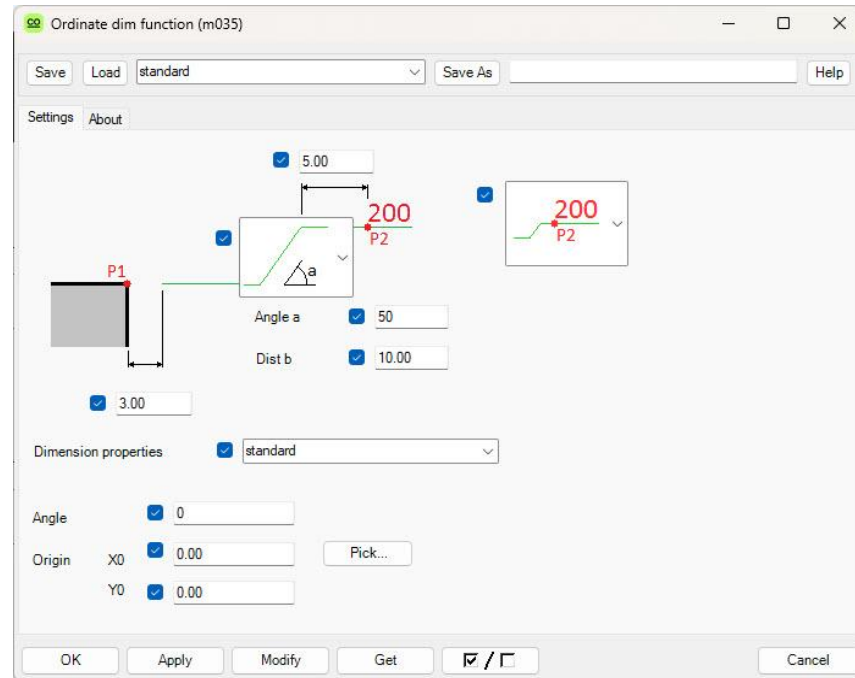
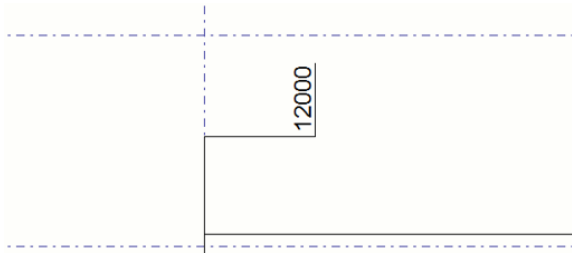


Open phase manager (ML517)

- Opens the Phase Manager from drawing.

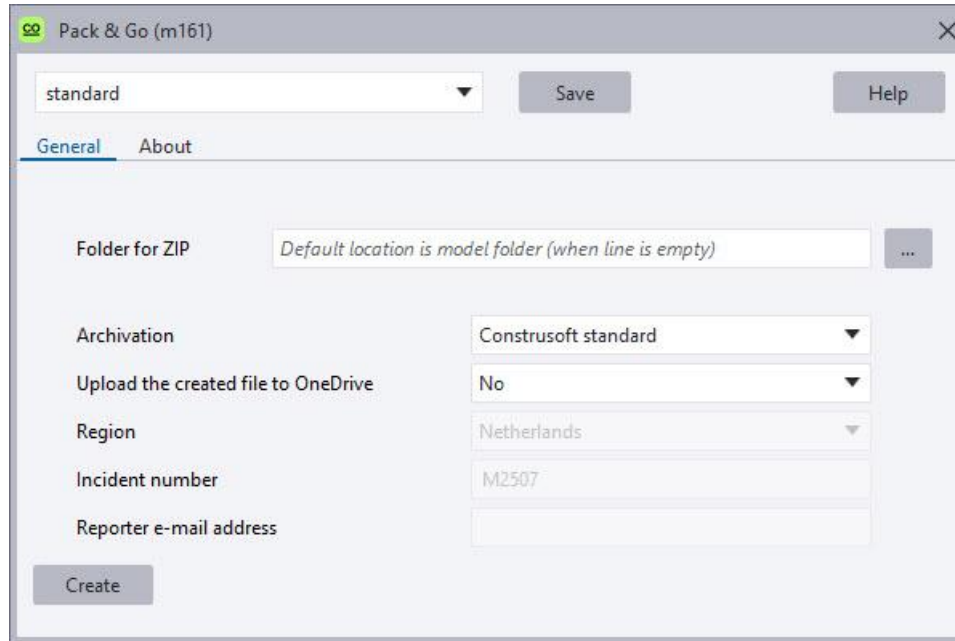
Ordinate dim function (m035)

- Create dimensions for objects from an alternative source. Is used in macro CS Multiple Ordinate Dimensions (DR005).



Pack and go (m161)

- Create archive of important model parts and user environment for sending them to the helpdesk service.



The screenshot shows the 'Pack & Go (m161)' application window. At the top, there is a title bar with the application name and a close button. Below the title bar, there is a dropdown menu set to 'standard', a 'Save' button, and a 'Help' button. The main area has two tabs: 'General' (selected) and 'About'. Under the 'General' tab, there are several fields and buttons: 'Folder for ZIP' with a text input field containing 'Default location is model folder (when line is empty)' and a browse button (...); 'Archivation' with a dropdown menu set to 'Construsoft standard'; 'Upload the created file to OneDrive' with a dropdown menu set to 'No'; 'Region' with a dropdown menu set to 'Netherlands'; 'Incident number' with a text input field containing 'M2507'; and 'Reporter e-mail address' with an empty text input field. At the bottom left, there is a 'Create' button.



Part UDA into drawing list (ML018)

- Adds in an additional column in the drawings list the profile information or a user defined attribute.

Part UDA Into Drawing List (ML018)

Save Load standard Save As standard Help

General About

From	To	Data type	UDA name
Part	UDA	String	DR_MAINPARTPROFILE
No action	Name	String	
No action	Name	String	
No action	Name	String	
No action	Name	String	
No action	Name	String	
No action	Name	String	
No action	Name	String	

Use for drawing type: Single part drawings

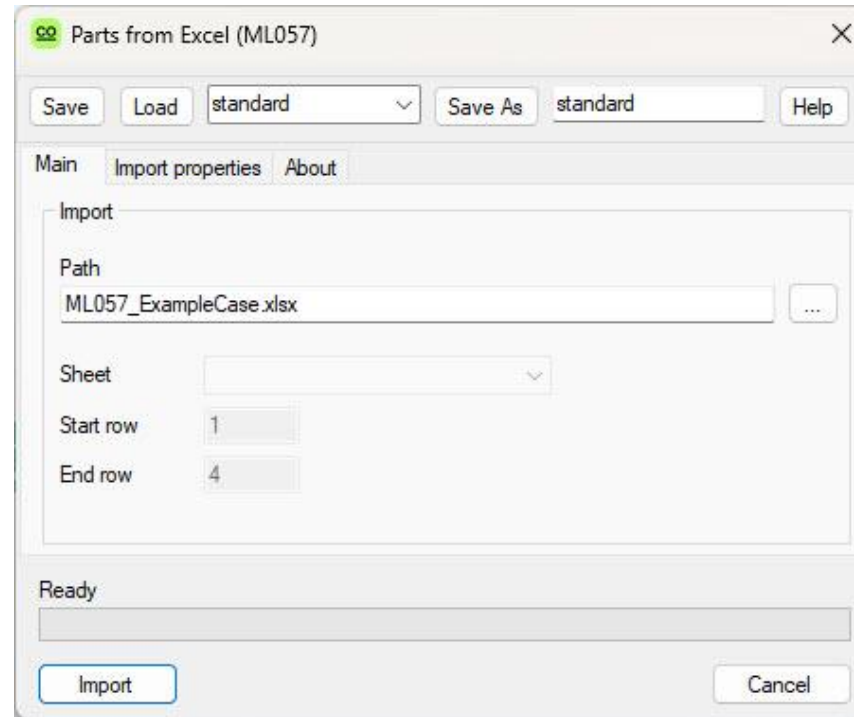
Idle 0 / 0

Please open drawing or select at least one drawing in documentmanager Write Close



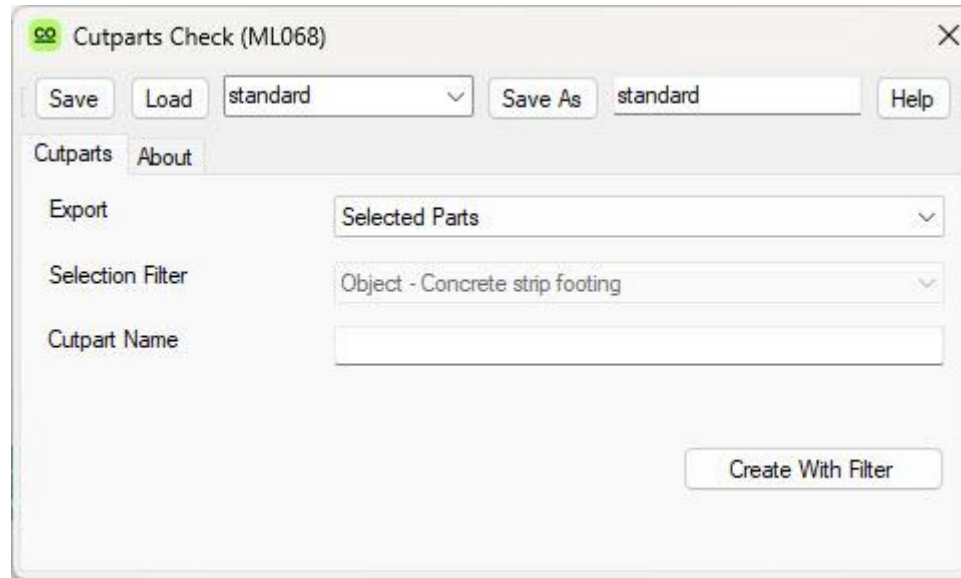
Parts from excel (ML057)

- Import parts from Excel to Tekla Structures.



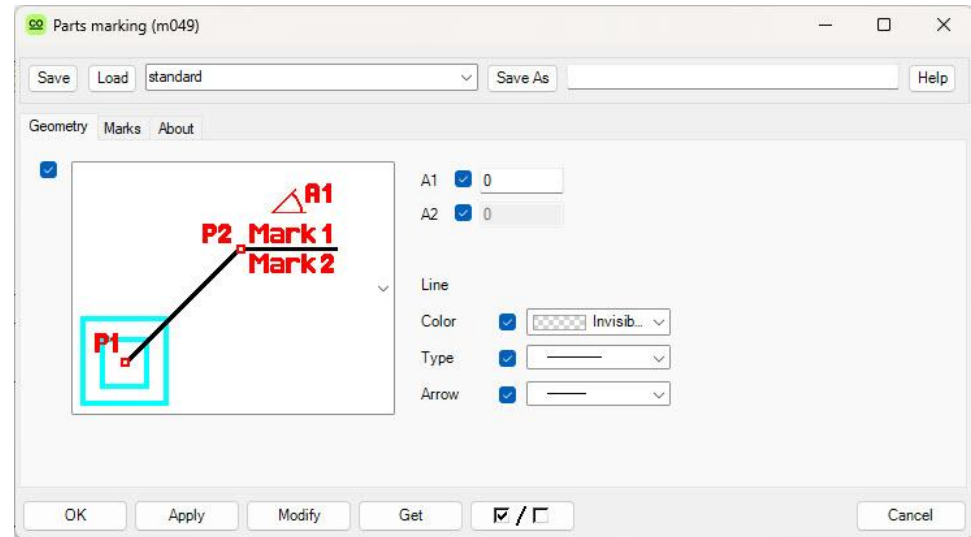
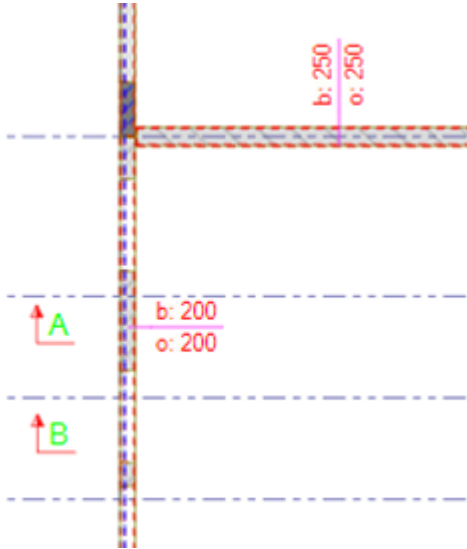
Cutparts check (ML068)

- Checks if parts has some specific cutparts. If so, then this is written to the part for later filtering.



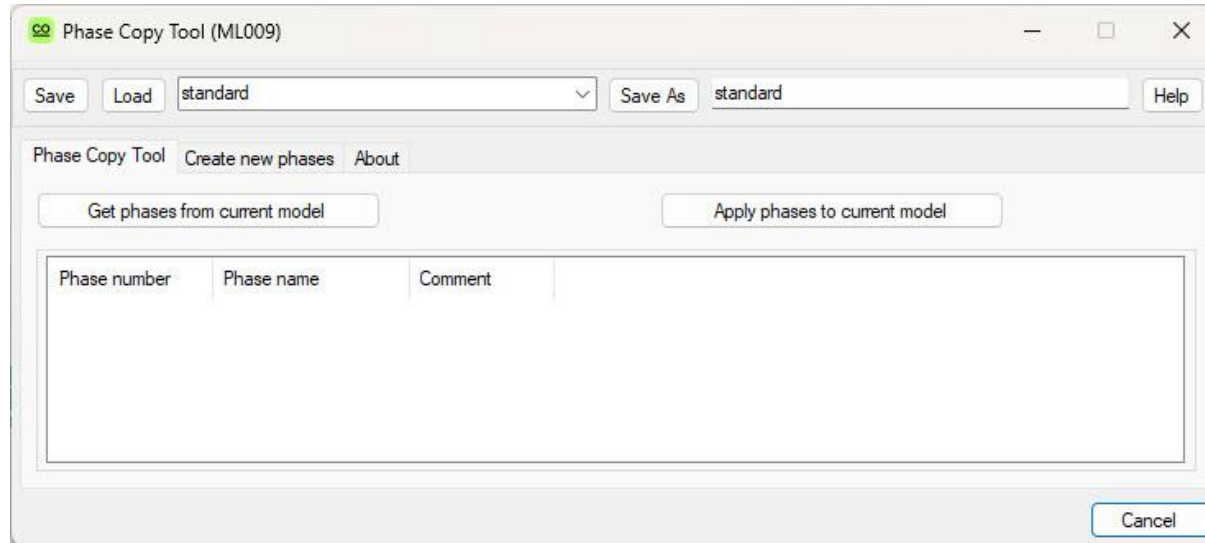
Parts marking (m049)

- Create custom marks on the selected parts in the drawing.



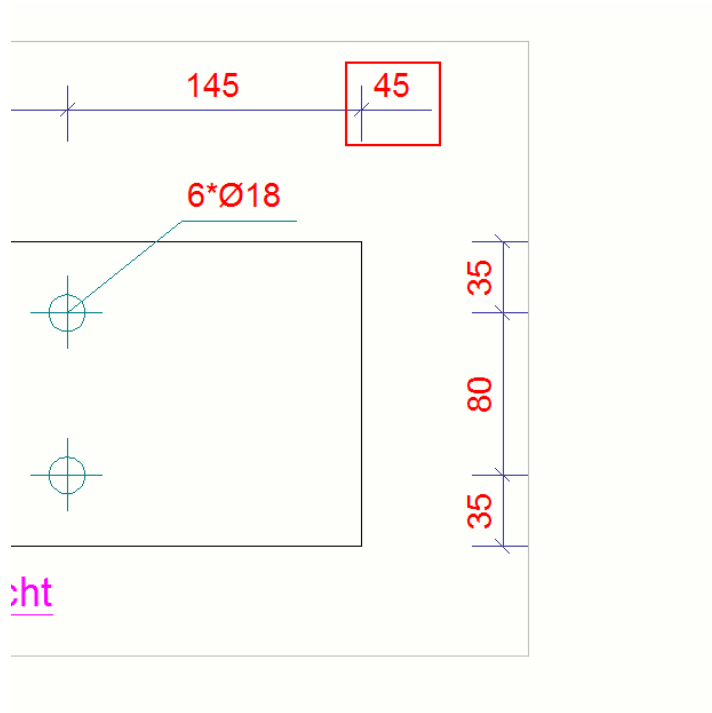
Phase Copy Tool (ML009)

- Tool to copy phases from one model to another.
- Phases are written in an XML file. This file can be loaded into a different model and the phases can be written in that model.



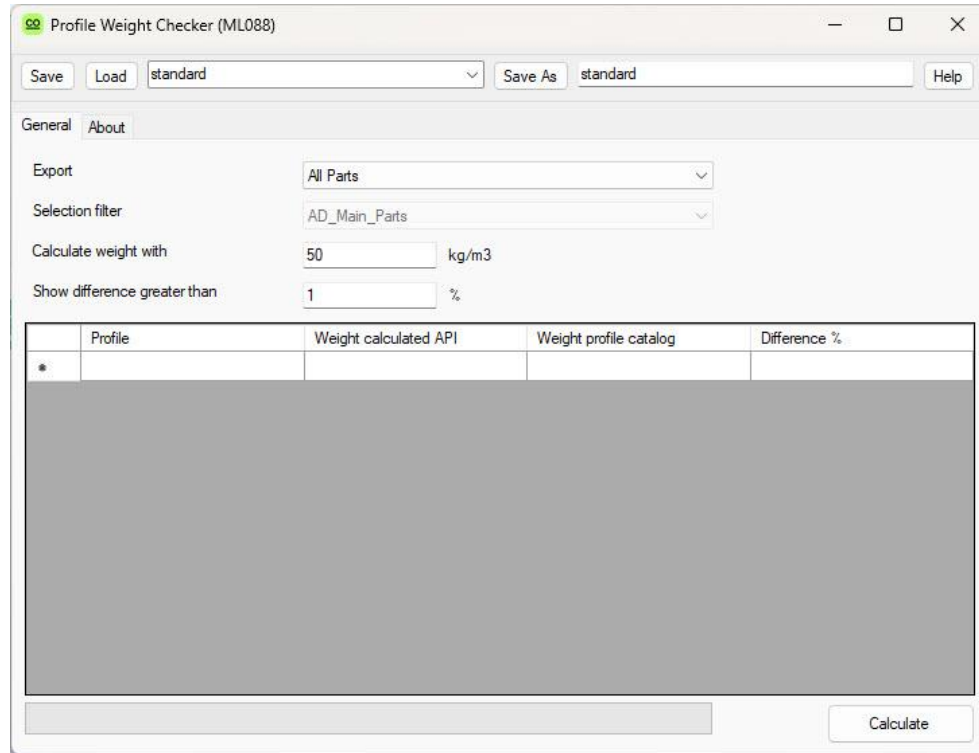
Place Dim Tags (ML508)

- Places tags and the dimlines.



Profile Weight Checker (ML088)

- Easily export all or selected parts and calculate their weight.



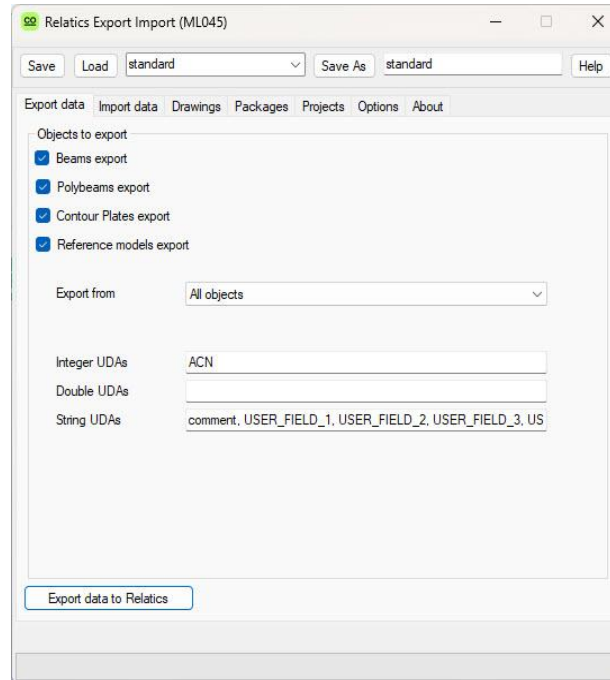
The screenshot shows the 'Profile Weight Checker (ML088)' application window. At the top, there are buttons for 'Save', 'Load', 'Save As', and 'Help', along with dropdown menus for 'standard' and 'standard'. Below these are tabs for 'General' and 'About'. The 'General' tab is active, showing settings for 'Export' (set to 'All Parts'), 'Selection filter' (set to 'AD_Main_Parts'), 'Calculate weight with' (set to '50 kg/m3'), and 'Show difference greater than' (set to '1 %'). Below the settings is a table with the following headers: 'Profile', 'Weight calculated API', 'Weight profile catalog', and 'Difference %'. The table has one row with a '*' in the first column. A large grey rectangular area covers the main part of the table. At the bottom right of the window is a 'Calculate' button.

	Profile	Weight calculated API	Weight profile catalog	Difference %
*				



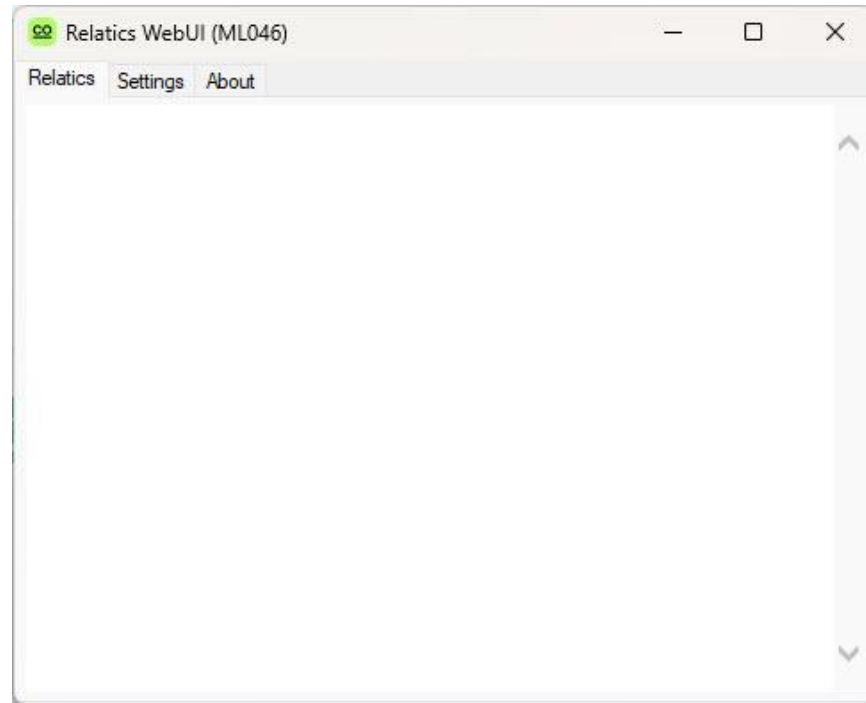
Relatics Export Import (ML045)

- Exports parts, assemblies (ID's, UDA's, Profiles, etc.) and drawings from Tekla to Relatics databases and vica versa.



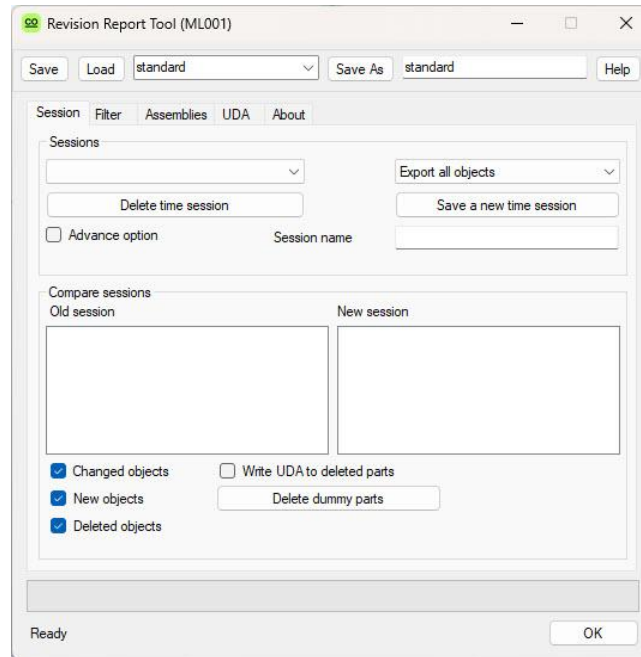
Relatics WebUI (ML046)

- Select the part in the Relatics database and it will be highlighted in Tekla.



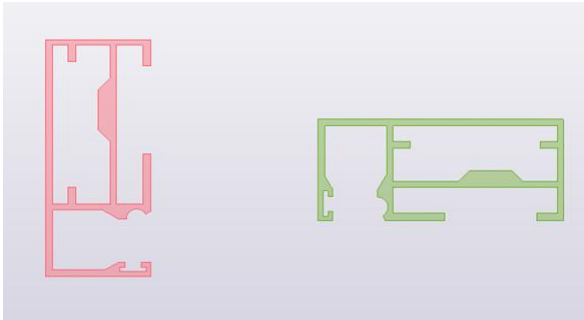
Revision report tool (ML001)

- Compare model with different saved versions.
- Shows added, modified en deleted objects.
- Save one or multiple sessions and compare with each other.



Rotate Coordinates Of Cross Section (ML087)

- This tool can rotate fixed user-defined profile in profile catalog.



Rotate Coordinates Of Cross Section (ML087)

Save Load standard Save As standard Help

General About

Name of cross section Select...

New name of cross section

New section type No change

Rotate over 90°

Rotate Close



Save Catalogs (ML511)

Saves the most imported databases to the model folder:

- Profdb.bin
- Assdb.bin
- Screwdb.bin
- Matdb.bin



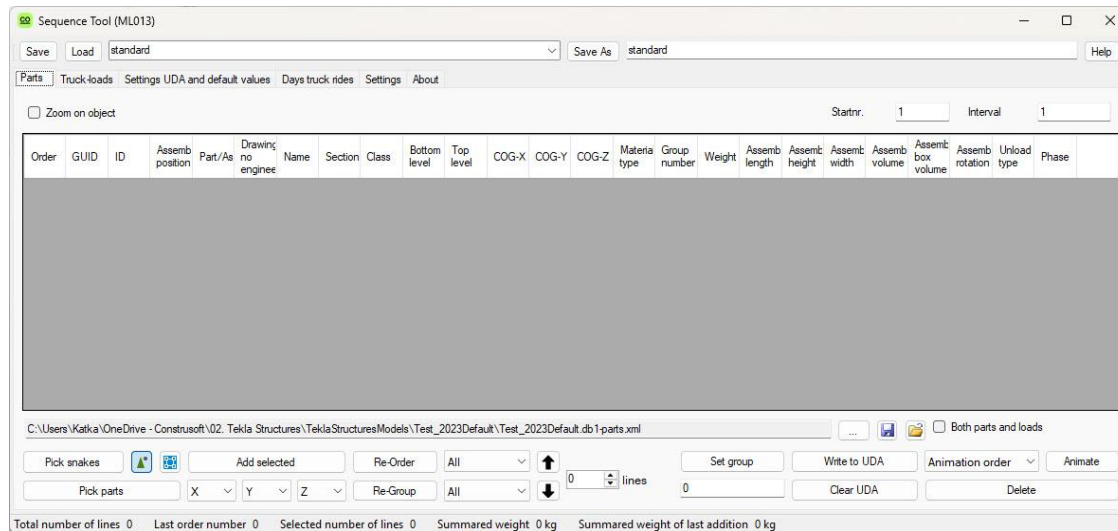
Sequence Tool (1/2) (ML013)

- Add sequence numbers in the model to any UDA.
- Simply change the order or add parts in a later state.
- Define startnumber and intermediate step.
- Replaces the macro's CS_AutoSequencer en CS_AssemblySequencer.
- Application: Foundation piles, Assembly sequence.



Sequence Tool (2/2) (ML013)

- Add items, rearrange the numbers and write the UDA's to the model.
- Information can be written by assembly or part.



Tekla Structures Version into UDA (ML507)

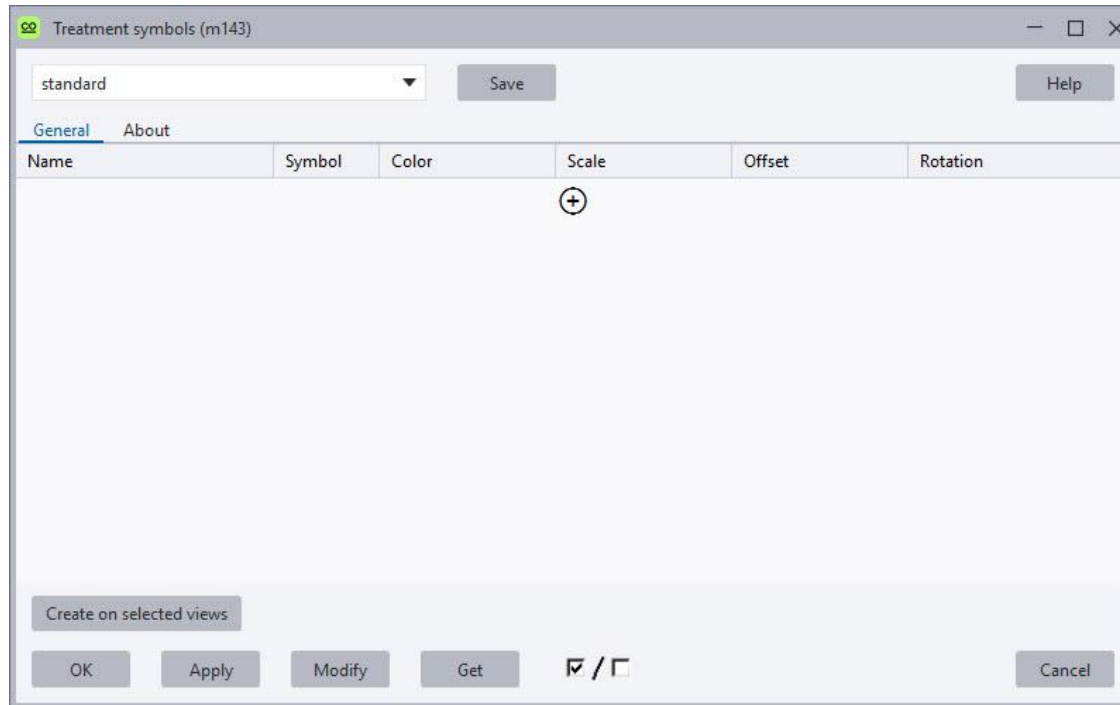
Writes the Tekla version in the project properties of the model.
This info (version number) can be used in stamps and / or lists.

ENZIJ ANDERS VERMELD	
SEN TENZIJ ANDERS VERMELD	
 Tekla Structures 19.1	
Project: project nummer	
Tekening: A [L.1]	Formaat: A3



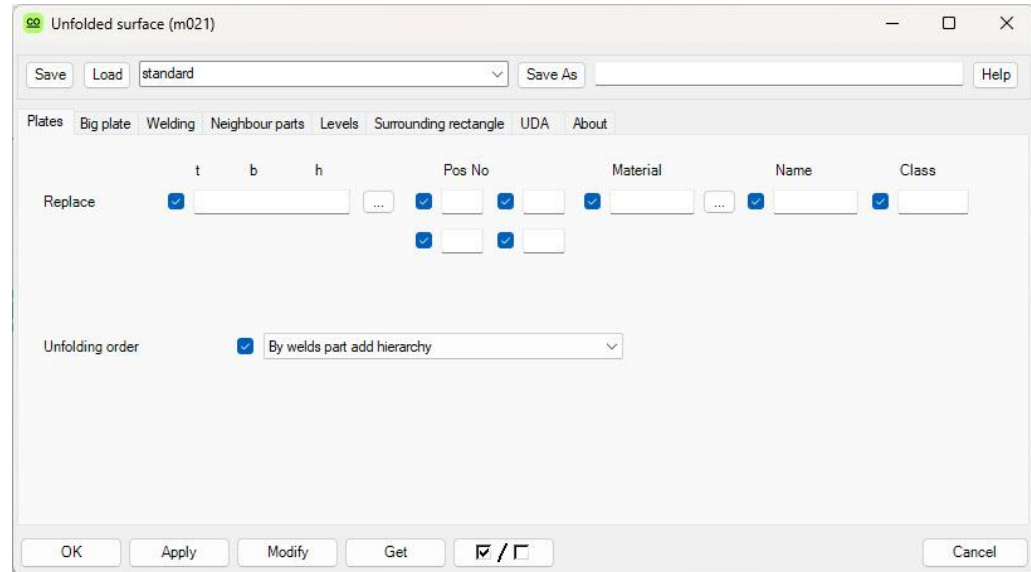
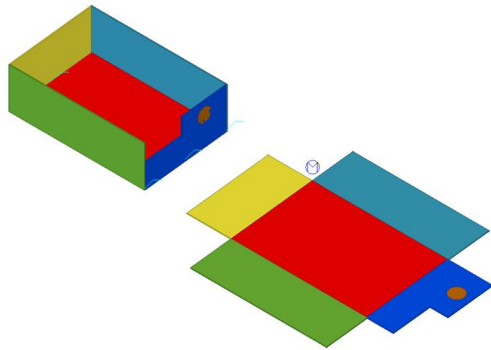
Treatment symbols (m143)

- Create custom symbols of the selected treatments in the drawing.



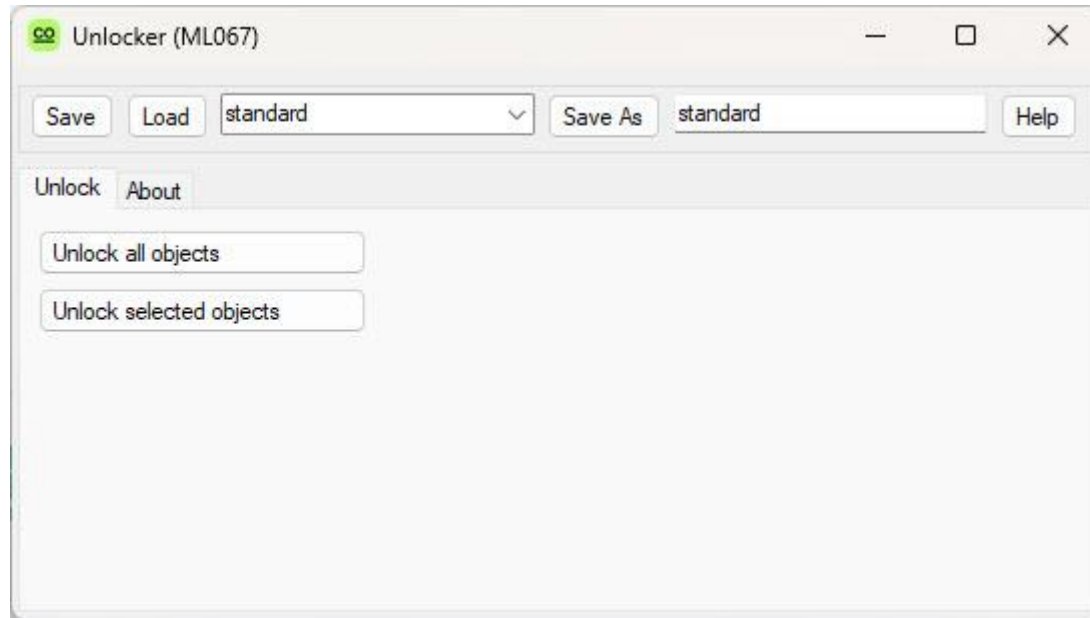
Unfolded Surface (m021)

- Fold surfaces in the model
- Select a part, activate the plugin and then select a position in the model where the part has to be unfolded.



Unlocker (ML067)

- Unlock all or selected objects in the model. Including points, construction lines etc.



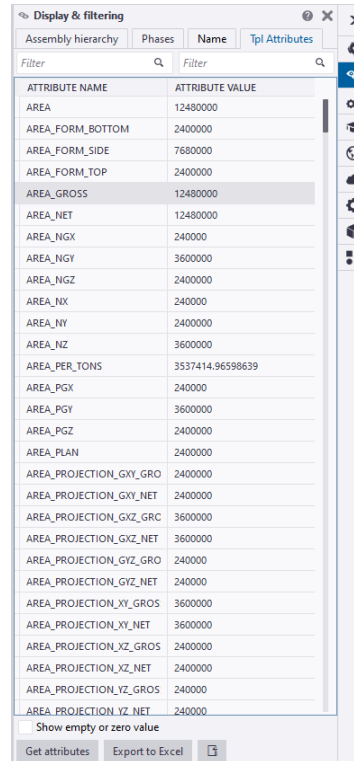
View Free (514)

- Sets the place of the selected view on free.



Visualizer (display & filtering)

- View and export all UDAs, template values and user values.



The screenshot shows a software window titled "Display & filtering". It has tabs for "Assembly hierarchy", "Phases", "Name", and "Tpl Attributes". Below the tabs are two search filters. The main area contains a table with two columns: "ATTRIBUTE NAME" and "ATTRIBUTE VALUE". The table lists various attributes such as AREA, AREA_FORM_BOTTOM, AREA_FORM_SIDE, AREA_FORM_TOP, AREA_GROSS, AREA_NET, AREA_NGX, AREA_NGY, AREA_NGZ, AREA_NX, AREA_NY, AREA_NZ, AREA_PER_TONS, AREA_PGX, AREA_PGY, AREA_PGZ, AREA_PLAN, and several AREA_PROJECTION attributes. The "AREA_GROSS" row is highlighted. At the bottom, there are buttons for "Get attributes", "Export to Excel", and a small icon.

ATTRIBUTE NAME	ATTRIBUTE VALUE
AREA	12480000
AREA_FORM_BOTTOM	2400000
AREA_FORM_SIDE	7680000
AREA_FORM_TOP	2400000
AREA_GROSS	12480000
AREA_NET	12480000
AREA_NGX	240000
AREA_NGY	3600000
AREA_NGZ	2400000
AREA_NX	240000
AREA_NY	2400000
AREA_NZ	3600000
AREA_PER_TONS	3537414.96598639
AREA_PGX	240000
AREA_PGY	3600000
AREA_PGZ	2400000
AREA_PLAN	2400000
AREA_PROJECTION_GXY_GRO	2400000
AREA_PROJECTION_GXY_NET	2400000
AREA_PROJECTION_GXZ_GRC	3600000
AREA_PROJECTION_GXZ_NET	3600000
AREA_PROJECTION_GYZ_GRO	240000
AREA_PROJECTION_GYZ_NET	240000
AREA_PROJECTION_XY_GROS	3600000
AREA_PROJECTION_XY_NET	3600000
AREA_PROJECTION_XZ_GROS	2400000
AREA_PROJECTION_XZ_NET	2400000
AREA_PROJECTION_YZ_GROS	240000
AREA_PROJECTION_YZ_NET	240000

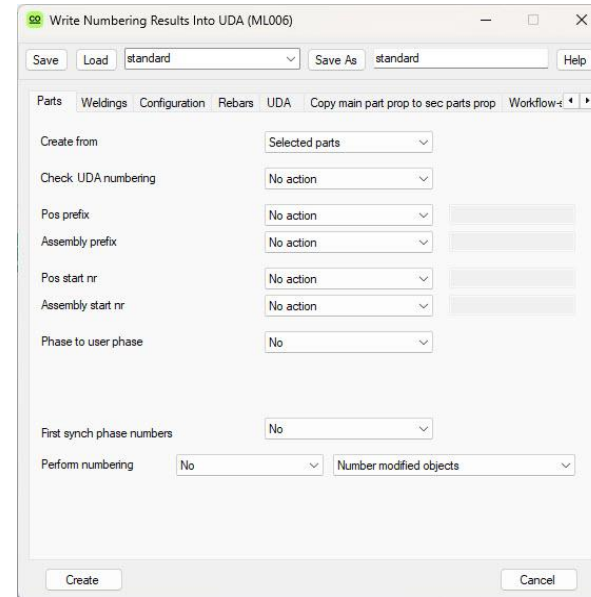
Show empty or zero value

Get attributes Export to Excel



Write numbering results into UDA (ML006)

- Write down the current numbering to the user defined attributes.
- After modifications you can see what the original number of a part was in the UDA's.
- Phase in the prefix.
- Write part prefix number into UDA.



Write UDA to part (DR164)

- Sets UDA for all identical secondary parts in the model.

Write value to part UDA (DR164)

standard Save Help

General About

Apply to All equal position numbers

UDA name	UDA Value	UDA Type
comment	Example	String

+

0 %

Idle 0/0

UDA Save



Custom Properties

Custom Properties

- CUSTOM.B1P1 "Gets beams First top bevel angle at the parts begin"
- CUSTOM.B1P2 "Gets beams First top bevel angle at the parts end"
- CUSTOM.B1P3 "Gets beams Second top bevel angle at the parts begin"
- CUSTOM.B1P4 "Gets beams Second top bevel angle at the parts end"
- CUSTOM.B2P1 "Gets beams First bottom bevel angle at the parts begin"
- CUSTOM.B2P2 "Gets beams First bottom bevel angle at the parts end"
- CUSTOM.B2P3 "Gets beams Second bottom bevel angle at the parts begin"
- CUSTOM.B2P4 "Gets beams Second bottom bevel angle at the parts end"

See ML069



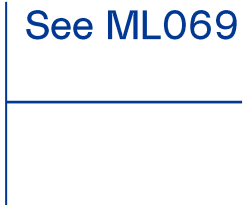
Custom Properties

- CUSTOM.BOTB1 "Gets beams start bottom left notch length"
- CUSTOM.BOTB2 "Gets beams end bottom left notch length"
- CUSTOM.BOTB3 "Gets beams start bottom right notch length"
- CUSTOM.BOTB4 "Gets beams end bottom right notch length"
- CUSTOM.BOTH1 "Gets beams start bottom left notch width"
- CUSTOM.BOTH2 "Gets beams end bottom left notch width"
- CUSTOM.BOTH3 "Gets beams start bottom right notch width"
- CUSTOM.BOTH4 "Gets beams end bottom right notch width"

See ML069



Custom Properties

- CUSTOM.BOTTOM_YL1
- CUSTOM.BOTTOM_YL2
- CUSTOM.BOTTOM_YL3
- CUSTOM.BOTTOM_YL4
- CUSTOM.CPORIENTATION "Gets contour plate orientation,,
- CUSTOM.CS_ASSEMBLY_PREFIX_AND_ACN "Gets textual sum of assembly prefix and ACN,,
- CUSTOM.CS_BRICK_TYPE "Gets brick type based on length and CS_BrickTypes.txt which should be placed at Environments\common\system\

- CUSTOM.CS_COG_IN_ASM_RIGHT_X
- CUSTOM.CS_COG_IN_ASM_RIGHT_Y
- CUSTOM.CS_COG_IN_ASM_RIGHT_Z
- CUSTOM.CS_INNER_PERIMETER
- CUSTOM.CS_LEVEL "Gets sum of ASSEMBLY.BOTTOM_LEVEL_GLOBAL_UNFORMATTED and PROJECT.USERDEFINED.LEVEL_TAKEN_AT"



Custom Properties

- CUSTOM.CS_LOOSE_PART
- CUSTOM.CS_NR_OF_PARTS_IN_ASM
- CUSTOM.CS_OBJECT_TYPE
- CUSTOM.CS_WELD_CONNECT_AS
- CUSTOM.CUTBACK "Gets the cutback value from the boolean made by custom component CUTBACK"
- CUSTOM.CUTBACKSIDE "Gets the cutback side from the boolean made by custom component CUTBACK"
- CUSTOM.DIFF_B_DIAM_LG_MOST_USED
- CUSTOM.DIFF_B_DIAM_MOST_USED
- CUSTOM.DIFF_B_DIAM_TR_MOST_USED
- CUSTOM.DIFF_T_DIAM_LG_MOST_USED
- CUSTOM.DIFF_T_DIAM_MOST_USED
- CUSTOM.DIFF_T_DIAM_TR_MOST_USED
- CUSTOM.DOUBLECUT_1
- CUSTOM.DOUBLECUT_2



Custom Properties

- CUSTOM.IP_ANGLE "Gets the in-plane angle of the system line in degrees"
- CUSTOM.IP_ANGLE_RAD "Gets the in-plane angle of the system line in radians,,
- CUSTOM.ISCUSTOMBRICK "Determine whenever brick is standard size or not"
- CUSTOM.NOMINAL_DIAM_LONG_MOST_USED
- CUSTOM.NOMINAL_DIAM_MOST_USED
- CUSTOM.NOMINAL_DIAM_TRANS_MOST_USED
- CUSTOM.OOP_ANGLE "Gets the out-of-plane angle of the system line in degrees"
- CUSTOM.OOP_ANGLE_RAD "Gets the out-of-plane angle of the system line in radians"



Custom Properties

- CUSTOM.PART_COG_X_IN_ASSEMBLY "X-coordinate of cog with respect to assembly coordinate system"
- CUSTOM.PART_COG_Y_IN_ASSEMBLY "Y-coordinate of cog with respect to assembly coordinate system"
- CUSTOM.PART_COG_Z_IN_ASSEMBLY "Z-coordinate of cog with respect to assembly coordinate system"
- CUSTOM.PART_GROSS_COG_X_IN_ASSEMBLY "X-coordinate of gross cog with respect to assembly coordinate system"
- CUSTOM.PART_GROSS_COG_Y_IN_ASSEMBLY "Y-coordinate of gross cog with respect to assembly coordinate system"
- CUSTOM.PART_GROSS_COG_Z_IN_ASSEMBLY "Z-coordinate of gross cog with respect to assembly coordinate system"



Custom Properties

- CUSTOM.PART_HAS_EDGE CUTS
- CUSTOM.PART_HAS_HOLES "Determine whenever beam has drills or bolts"
- CUSTOM.PART_HAS_INTCUTS
- CUSTOM.PART_HAS_PROFCUTS
- CUSTOM.PART_IS_CONVEX "Determine whenever beam has convex cuts"
- CUSTOM.PART_IS_PROFILED "Determine whenever beam has been profiled,,
- CUSTOM.PART_ROTATION_CW_IN_ASSEMBLY "Clock wise rotation of part with respect to assembly coordinate system"
- CUSTOM.PART_ROTATION_IN_ASSEMBLY "Rotation of part with respect to assembly coordinate system"
- CUSTOM.REBAR_SHAPE_COUPLERS
- CUSTOM.S1P1 "Gets beams First top saw angle at the parts begin"
- CUSTOM.S1P2 "Gets beams First top saw angle at the parts end"
- CUSTOM.S1P3 "Gets beams Second top saw angle at the parts begin"
- CUSTOM.S1P4 "Gets beams Second top saw angle at the parts end"



Custom Properties

- CUSTOM.S2P1 "Gets beams First bottom saw angle at the parts begin"
- CUSTOM.S2P2 "Gets beams First bottom saw angle at the parts end"
- CUSTOM.S2P3 "Gets beams Second bottom saw angle at the parts begin,,
- CUSTOM.S2P4 "Gets beams Second bottom saw angle at the parts end,,
- CUSTOM.TOPB1 "Gets beams start top left notch length"
- CUSTOM.TOPB2 "Gets beams end top left notch length"
- CUSTOM.TOPB3 "Gets beams start top right notch length"
- CUSTOM.TOPB4 "Gets beams end top right notch length"
- CUSTOM.TOPH1 "Gets beams start top left notch width"
- CUSTOM.TOPH2 "Gets beams end top left notch width"
- CUSTOM.TOPH3 "Gets beams start top right notch width"
- CUSTOM.TOPH4 "Gets beams end top right notch width"

See ML069



Custom Properties

- CUSTOM.TOP_YL1
- CUSTOM.TOP_YL2
- CUSTOM.TOP_YL3
- CUSTOM.TOP_YL4
- CUSTOM.YL1 "Gets beams start left cut width"
- CUSTOM.YL2 "Gets beams end left cut width"
- CUSTOM.YL3 "Gets beams start right cut width"
- CUSTOM.YL4 "Gets beams end right cut width"



Custom Properties

- CUSTOM.CS_BOLTTYPE_COUNT "Gets bolt type count"
- CUSTOM.CS_CURRENTPHASE_ASSEMBLY_COUNT "Gets current phase assembly count"
- CUSTOM.CS_CURRENTPHASE_BEAM_COUNT "Gets current phase beam count"
- CUSTOM.CS_CURRENTPHASE_BENTPLATE_COUNT "Gets current phase bent plate count"
- CUSTOM.CS_CURRENTPHASE_CONTOURPLATE_COUNT "Gets current phase contour plate count"
- CUSTOM.CS_CURRENTPHASE_LOFTEDPLATE_COUNT "Gets current phase lofted plate count"
- CUSTOM.CS_CURRENTPHASE_NAME "Gets current phase name"
- CUSTOM.CS_CURRENTPHASE_NUMBER "Gets current phase number"
- CUSTOM.CS_CURRENTPHASE_PART_COUNT "Gets current phase part count"
- CUSTOM.CS_CURRENTPHASE_POLYBEAM_COUNT "Gets current phase polybeam count"
- CUSTOM.CS_CURRENTPHASE_SPIRALBEAM_COUNT "Gets current phase spiral beam count"



Custom Properties

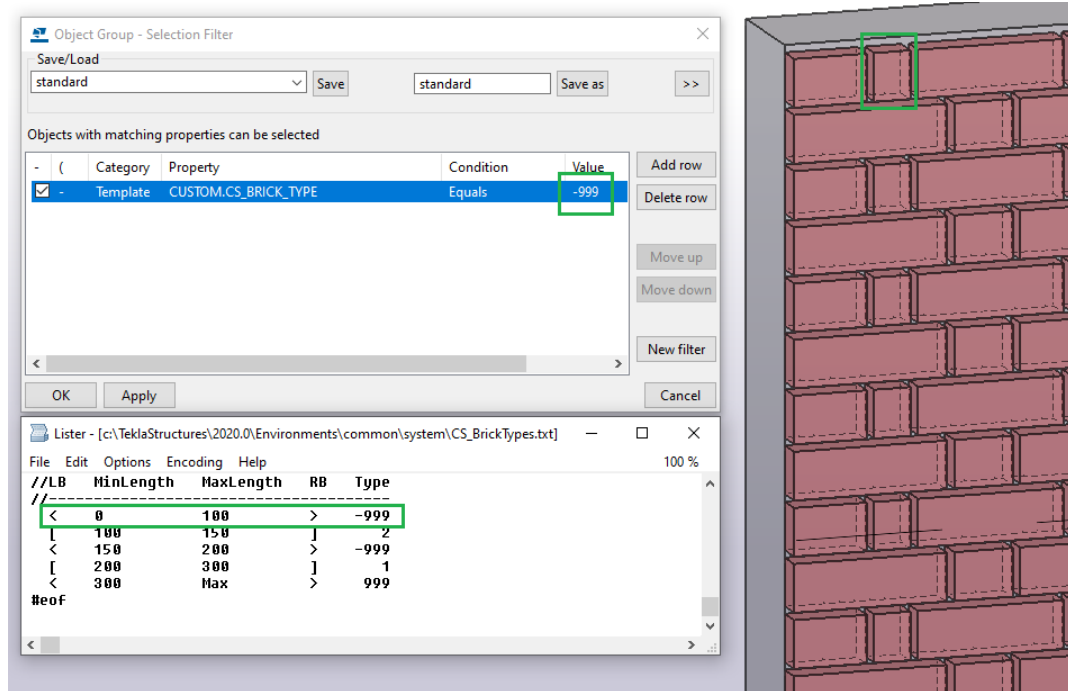
- CUSTOM.CS_EMBED_PLACING "Gets wall side type on which input embed is placed"
- CUSTOM.CS_HAS_CONICAL_BENDS "Indicates if bent plate has conical bends"
- CUSTOM.CS_PART_ROTATION "Gets rotation of the part."
- CUSTOM.CS_PHASE_COUNT "Gets the Phase count of the occurrences by part number."



General Purpose Properties

CUSTOM.CS_BRICK_TYPE

- Gets brick type based on length and CS_BrickTypes.txt placed at Environments\common\system\

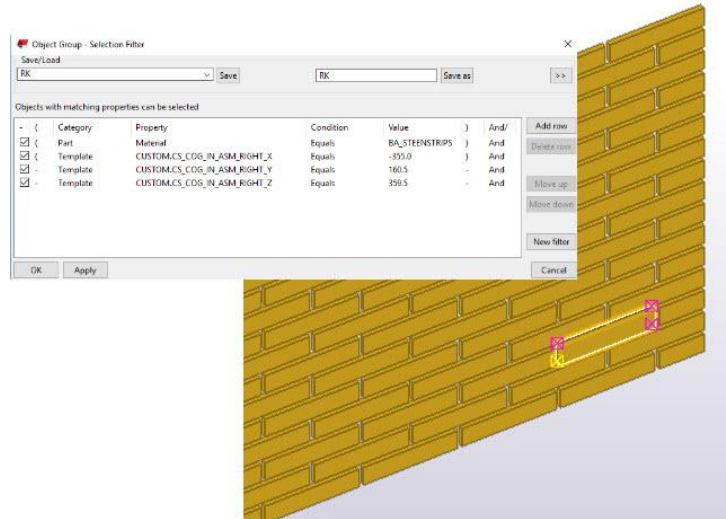


CUSTOM.CS_COG_IN_ASM_RIGHT_X

CUSTOM.CS_COG_IN_ASM_RIGHT_Y

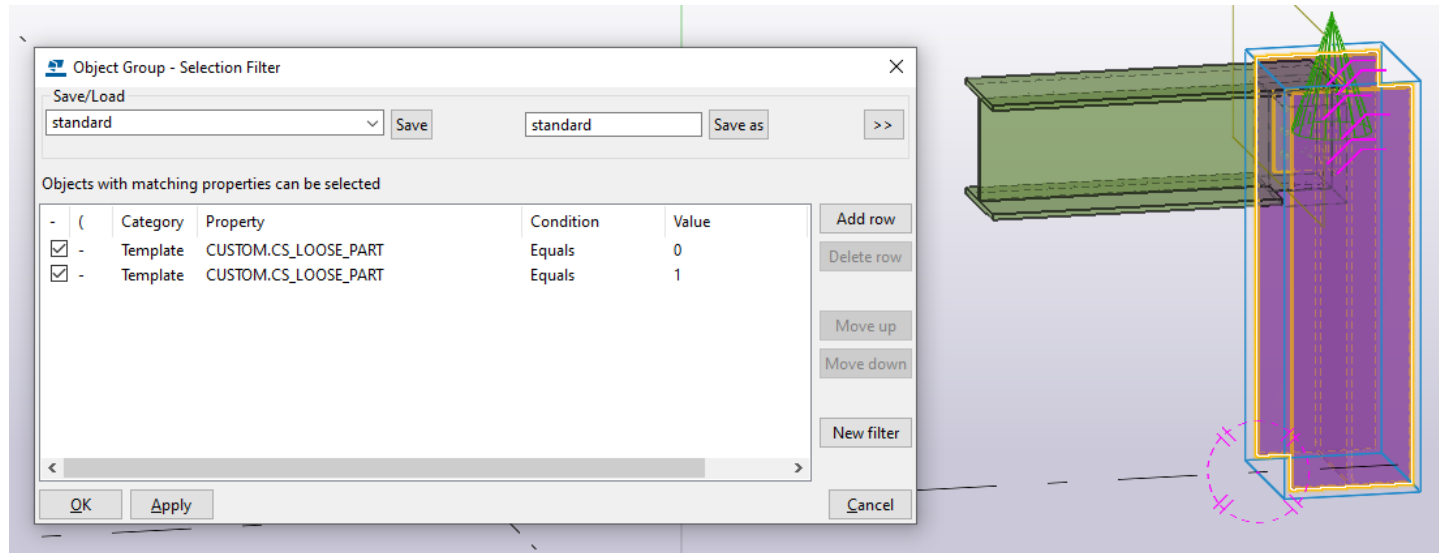
CUSTOM.CS_COG_IN_ASM_RIGHT_Z

- Gets coordinate of cog with respect to assembly coordinate system on right side



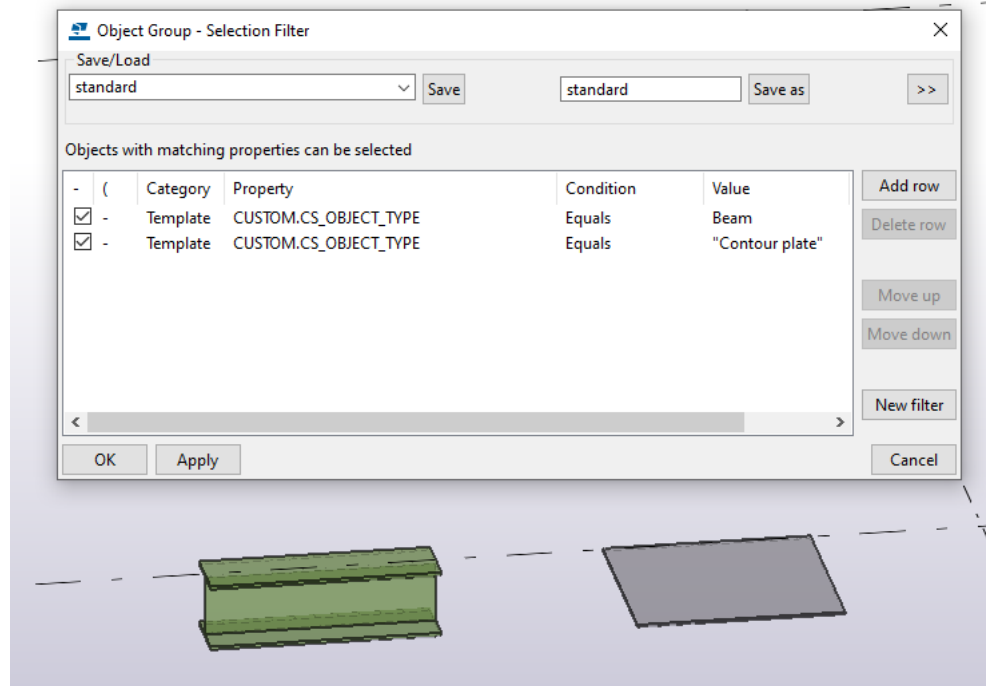
CUSTOM.CS_LOOSE_PART

- Yields 1 if assembly contains only one part.



CUSTOM.CS_OBJECT_TYPE

- Yields type of most existing model objects.



CUSTOM.DIFF_B_DIAM_MOST_USED
CUSTOM.DIFF_B_DIAM_LG_MOST_USED
CUSTOM.DIFF_B_DIAM_TR_MOST_USED

Gets the difference between current bar diameter and most used bars diameter from the part bottom mesh

- Gets the difference between current bar diameter and most used longitudinal bars diameter from the part bottom mesh
- Gets the difference between current bar diameter and most used transversal bars diameter from the part bottom mesh



CUSTOM.DIFF_T_DIAM_MOST_USED
CUSTOM.DIFF_T_DIAM_LG_MOST_USED
CUSTOM.DIFF_T_DIAM_TR_MOST_USED

Gets the difference between current bar diameter and most used bars diameter from the part top mesh

- Gets the difference between current bar diameter and most used longitudinal bars diameter from the part top mesh
- Gets the difference between current bar diameter and most used transversal bars diameter from the part top mesh



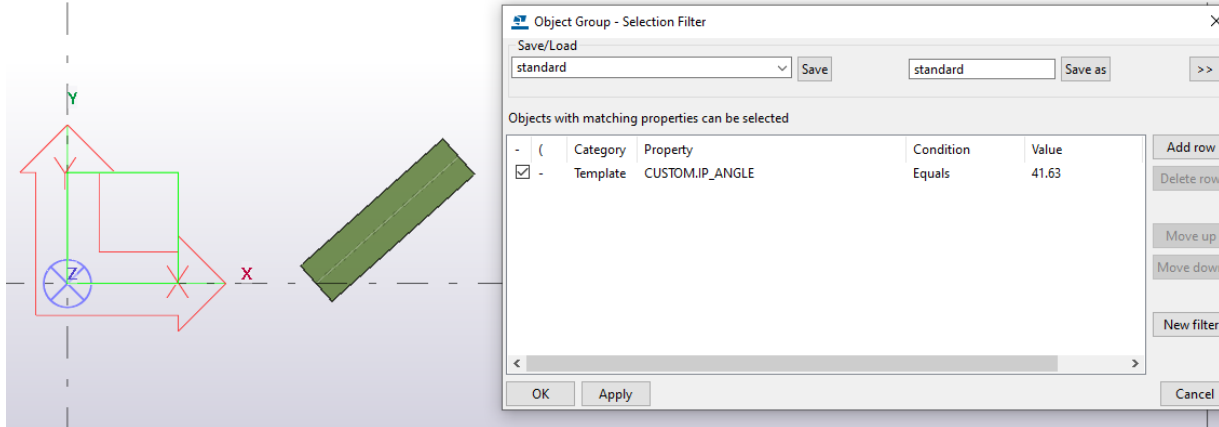
CUSTOM.DOUBLECUT_1 (local xy-plane) CUSTOM.DOUBLECUT_2 (local xz-plane)

- To select part with double cut and the start or at the end.
Value 0 means no double cut, value 1 means double cut.



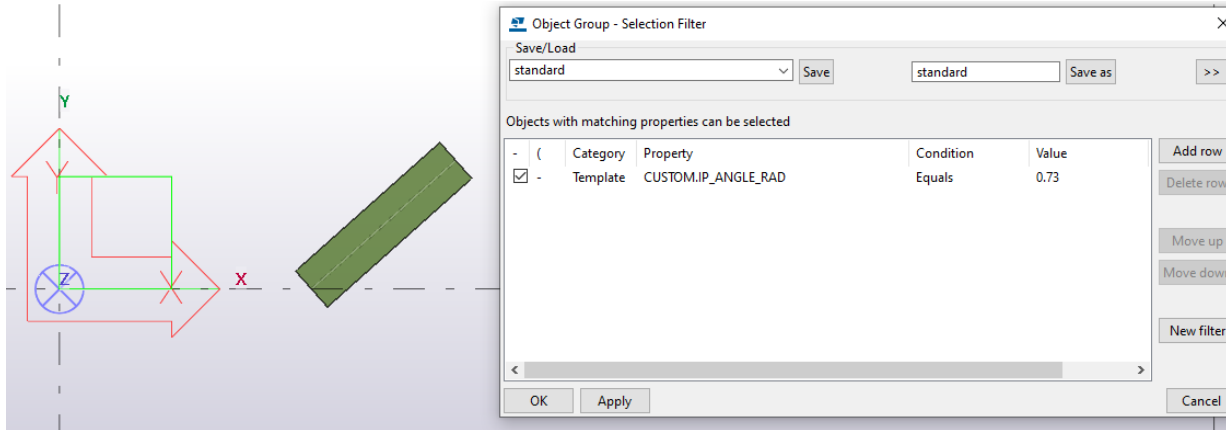
CUSTOM.IP_ANGLE

- Gets the in-plane angle of the system line in degrees.



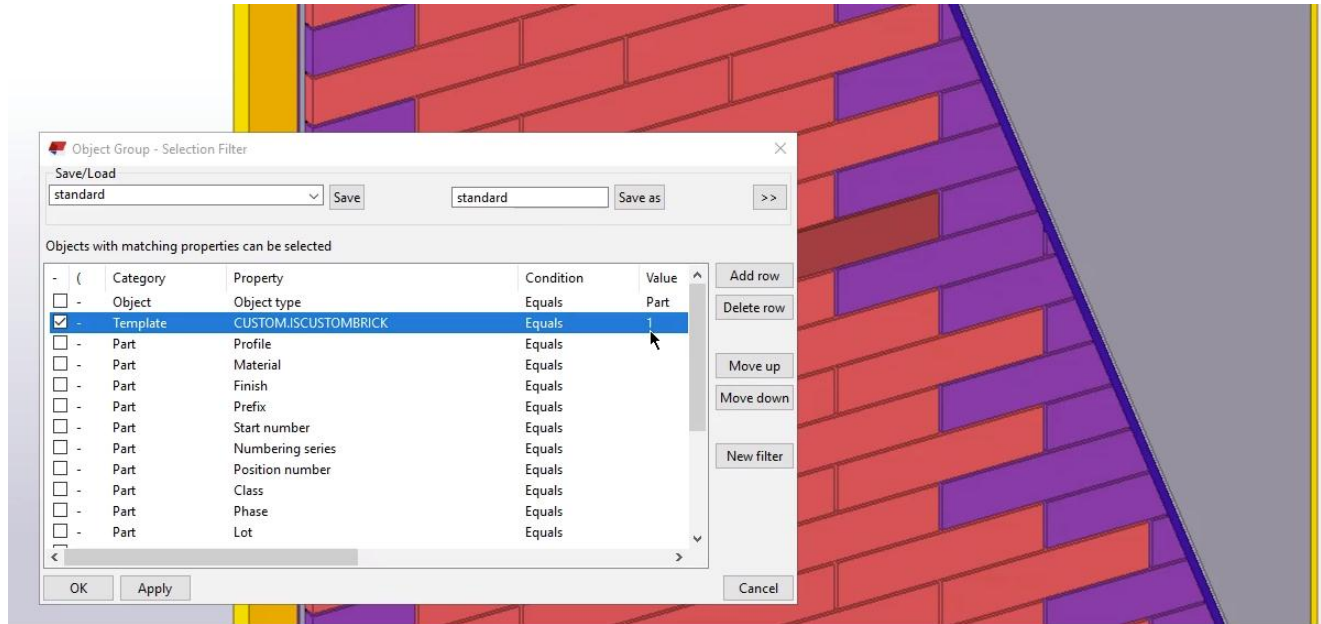
CUSTOM.IP_ANGLE_RAD

- Gets the in-plane angle of the system line in radians.



CUSTOM.ISCUSTOMBRICK

- Determine whether brick has non-rectangular or default shape.



CUSTOM.NOMINAL_DIAM_MOST_USED

CUSTOM.NOMINAL_DIAM_LONG_MOST_USED

Gets the most used bars diameter from the part meshes.

CUSTOM.NOMINAL_DIAM_TRANS_MOST_USED

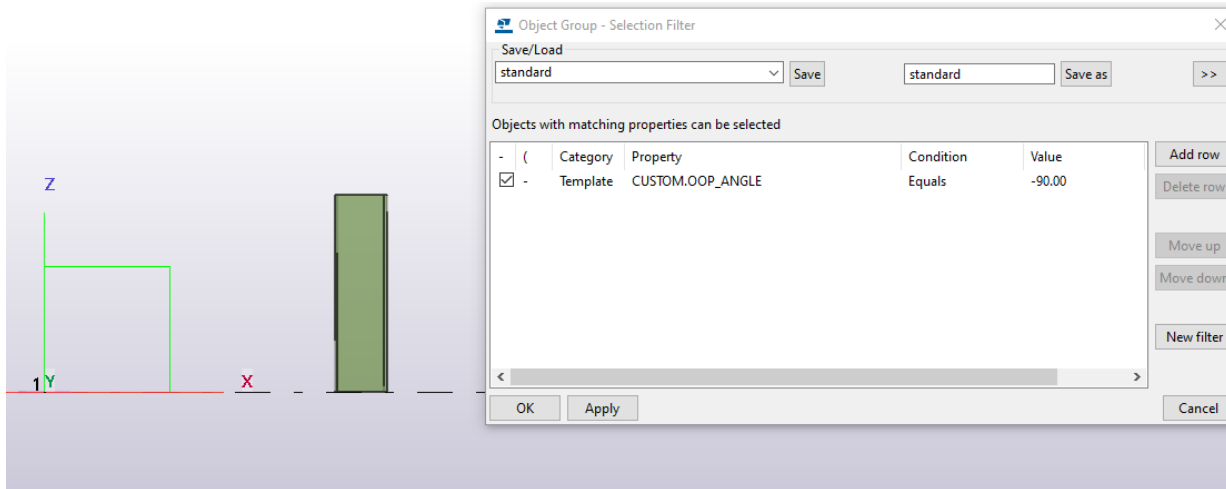
Gets the most used longitudinal bars diameter from the part meshes.

- Gets the most used transversal bars diameter from the part meshes.



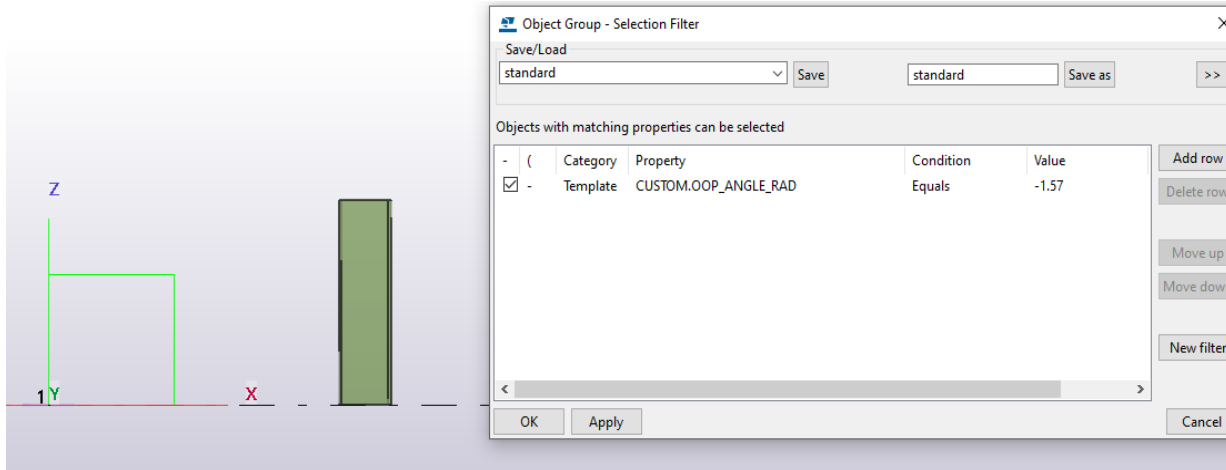
CUSTOM.OOP_ANGLE

- Gets the out-of-plane angle of the system line in degrees.



CUSTOM.OOP_ANGLE_RAD

- Gets the out-of-plane angle of the system line in radians.

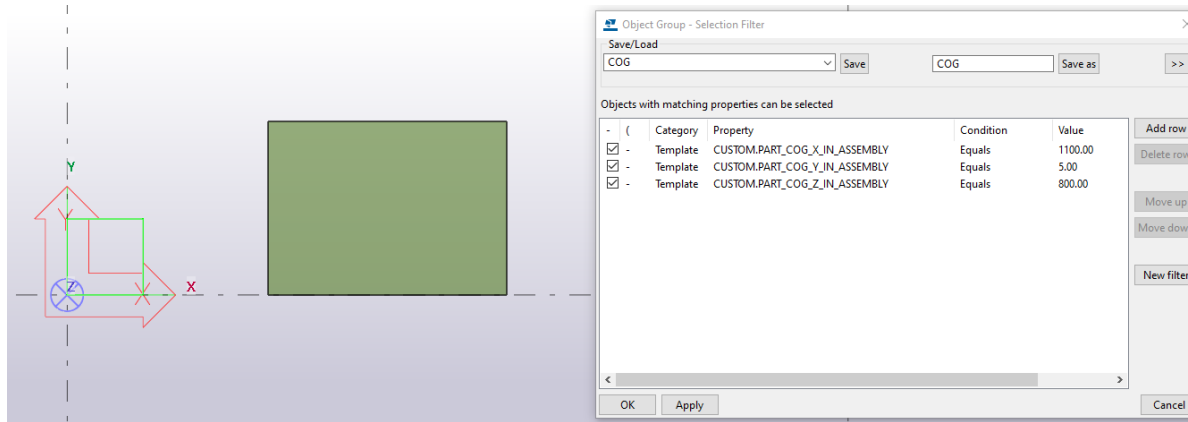


CUSTOM.PART_COG_X_IN_ASSEMBLY

CUSTOM.PART_COG_Y_IN_ASSEMBLY

CUSTOM.PART_COG_Z_IN_ASSEMBLY

Gets coordinates of cog with respect to assembly coordinate system, used mainly with bricks in Wood wall (57).

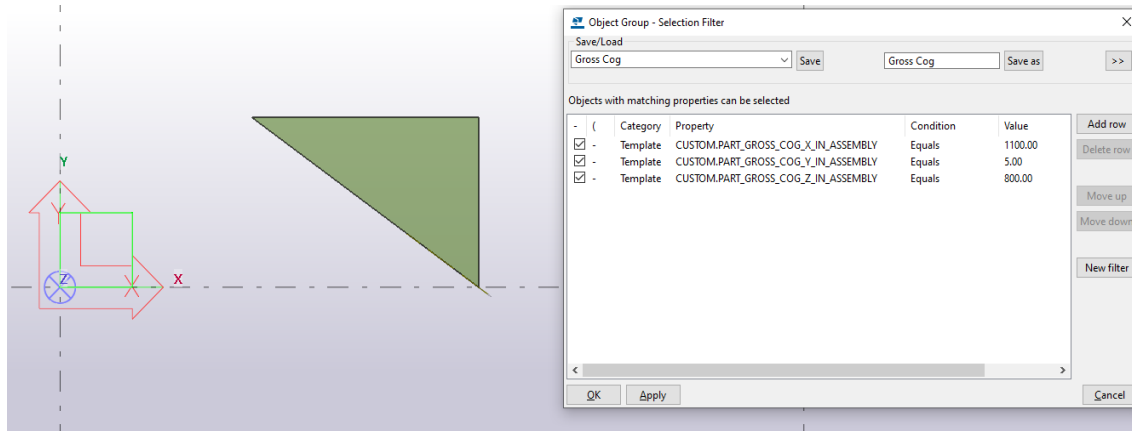


CUSTOM.PART_GROSS_COG_X_IN_ASSEMBLY

CUSTOM.PART_GROSS_COG_Y_IN_ASSEMBLY

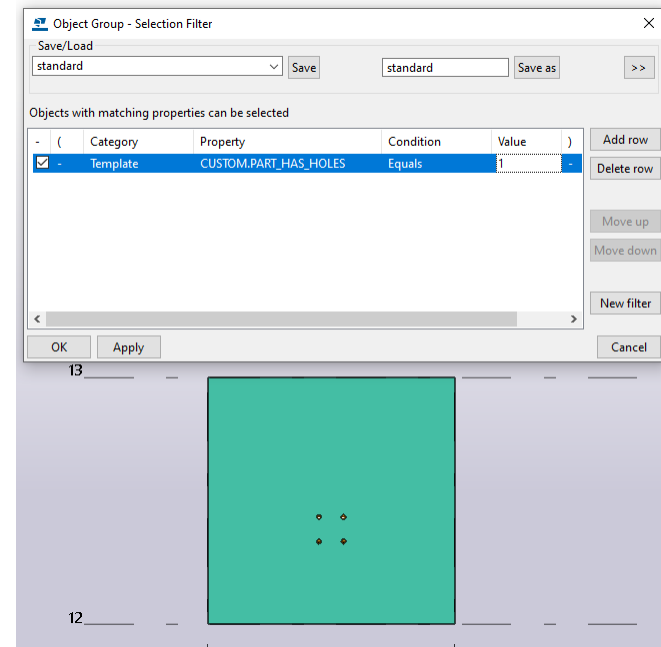
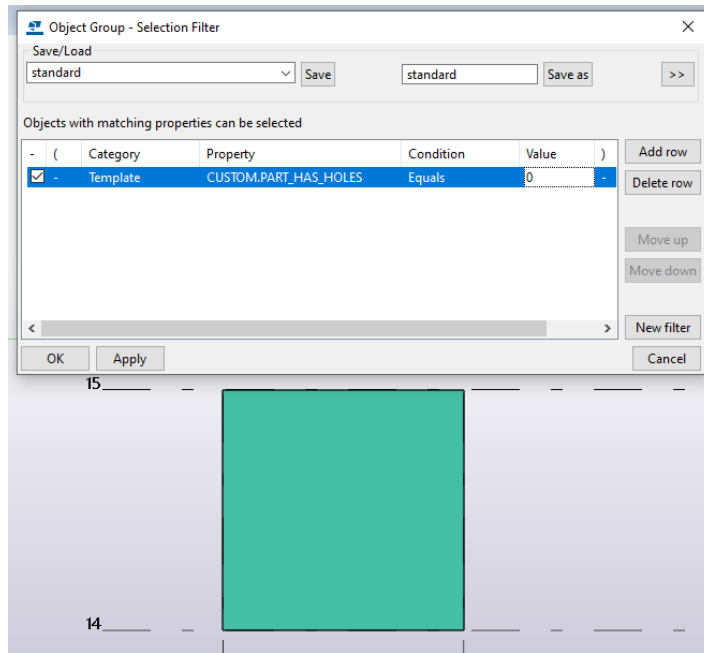
CUSTOM.PART_GROSS_COG_Z_IN_ASSEMBLY

Gets coordinates of gross cog with respect to assembly coordinate system, used mainly with bricks in WoodMill (157).



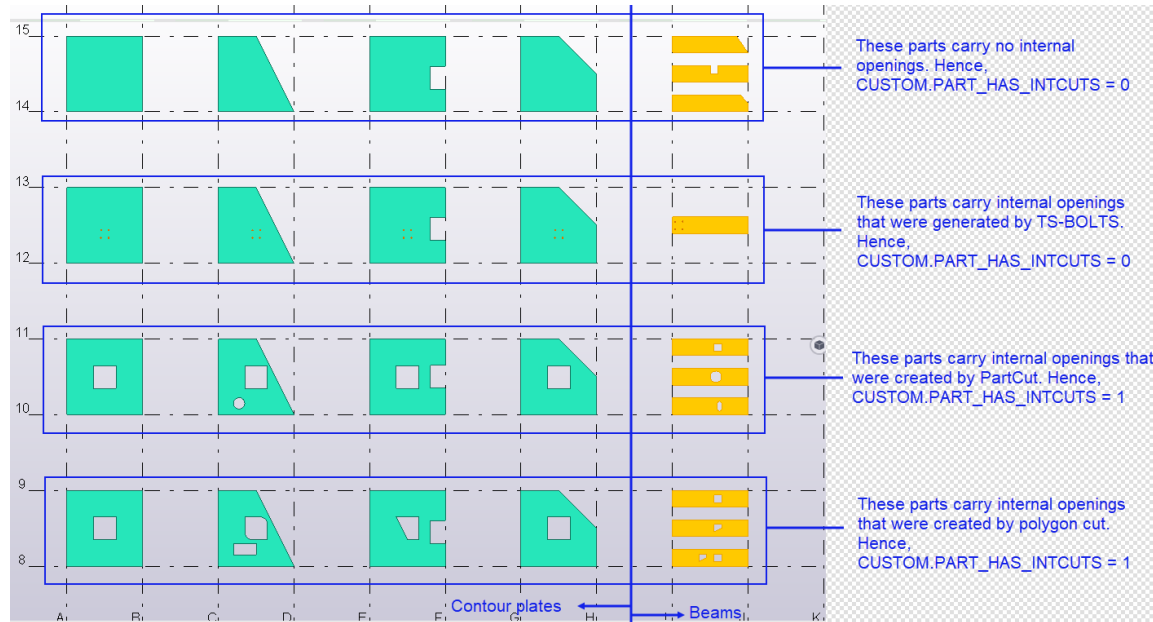
CUSTOM.PART_HAS_HOLES

- Determine whether a beam or contour plate carries drills or bolt holes.



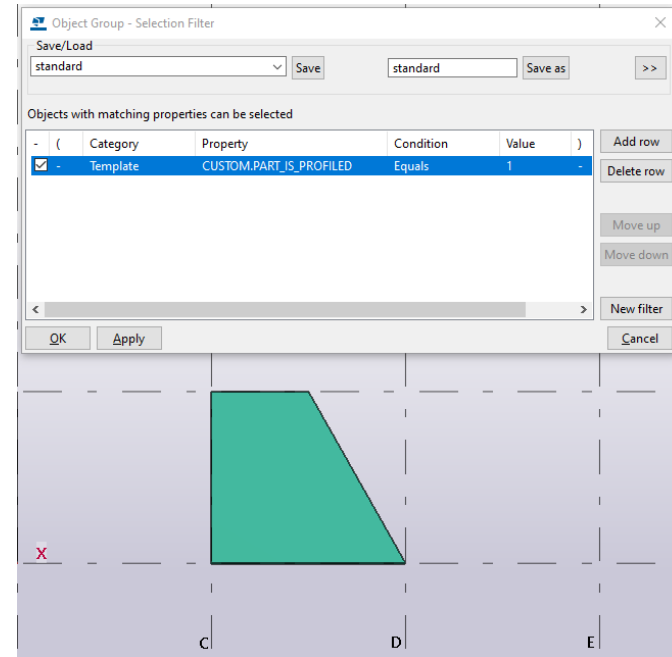
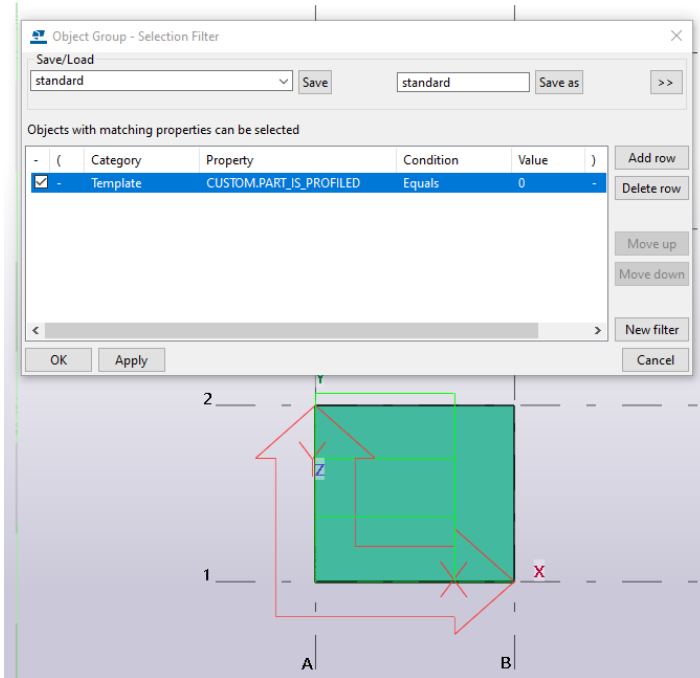
CUSTOM.PART_HAS_INTCUTS

- Determines whether a beam or contour plate carries any internal cut which was not created by the Bolts command.



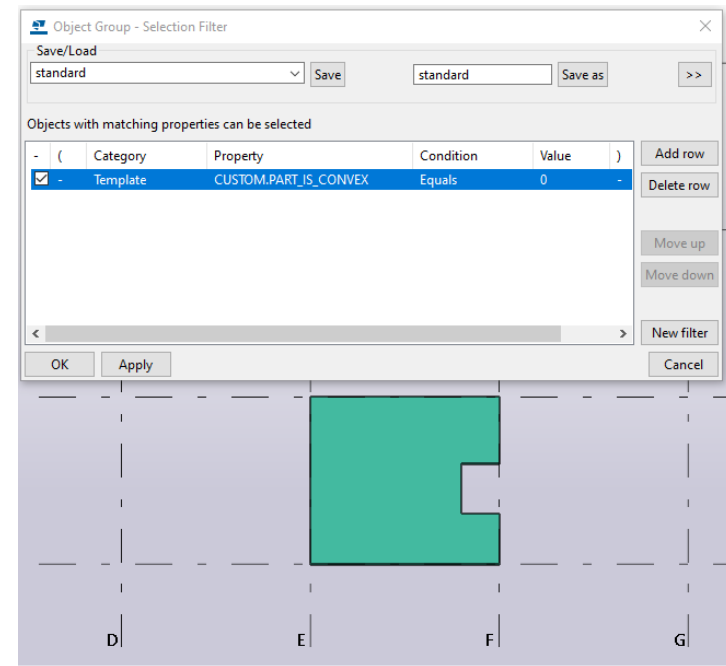
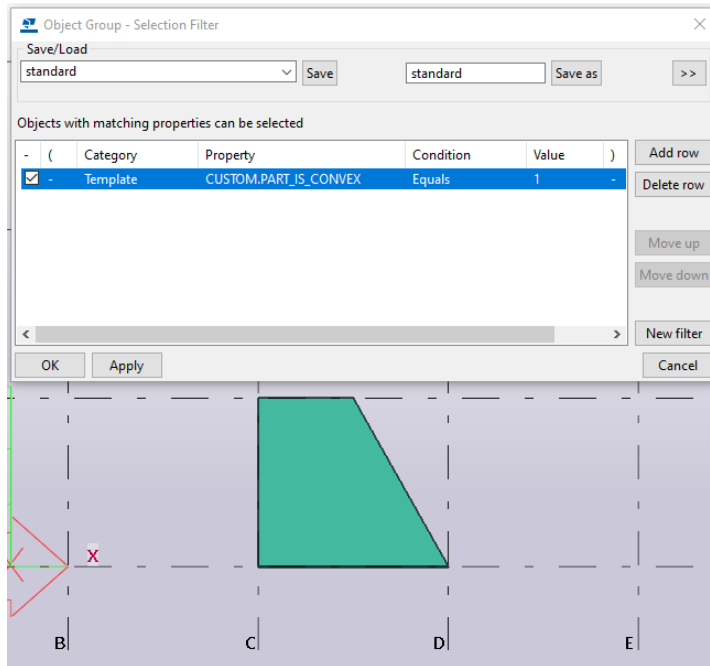
CUSTOM.PART_IS_PROFILED

- Determines whether a beam or contour plate is profiled.



CUSTOM.PART_IS_CONVEX

- Determine whether the final solid of a beam or contour plate is convex.

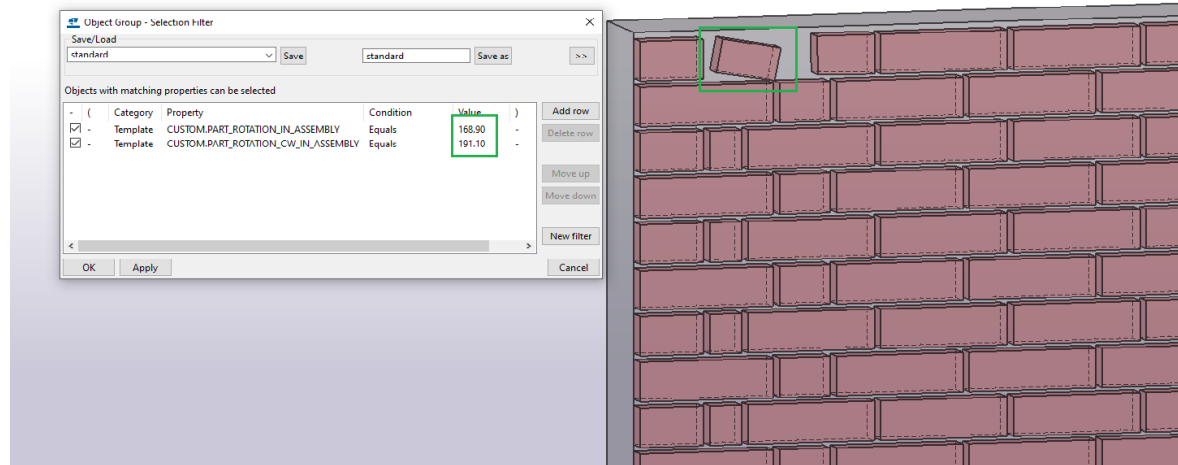


CUSTOM.PART_ROTATION_IN_ASSEMBLY

Rotation of part with respect to assembly coordinate system

CUSTOM.PART_ROTATION_CW_IN_ASSEMBLY

Clock-wise rotation of part with respect to assembly coordinate system.

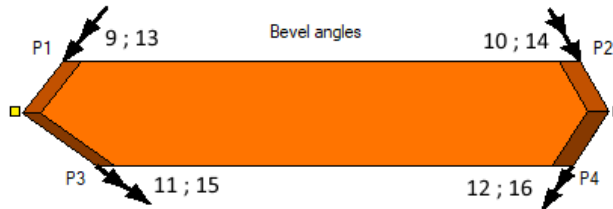


Tool Specific Properties

CUSTOM.B1P1
CUSTOM.B1P2
CUSTOM.B1P3
CUSTOM.B1P4
CUSTOM.B2P1
CUSTOM.B2P2
CUSTOM.B2P3
CUSTOM.B2P4

- Gets beam's bevel angles

See ML069



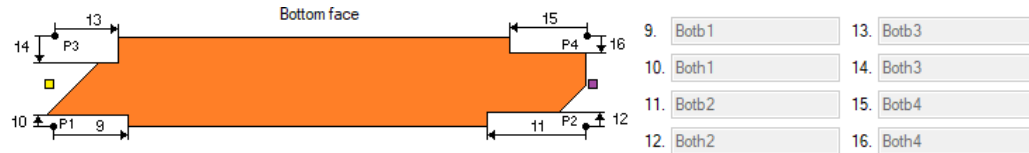
9. B1P1	13. B2P1
10. B1P2	14. B2P2
11. B1P3	15. B2P3
12. B1P4	16. B2P4



CUSTOM.BOTB1
CUSTOM.BOTB2
CUSTOM.BOTB3
CUSTOM.BOTB4
CUSTOM.BOTH1
CUSTOM.BOTH2
CUSTOM.BOTH3
CUSTOM.BOTH4

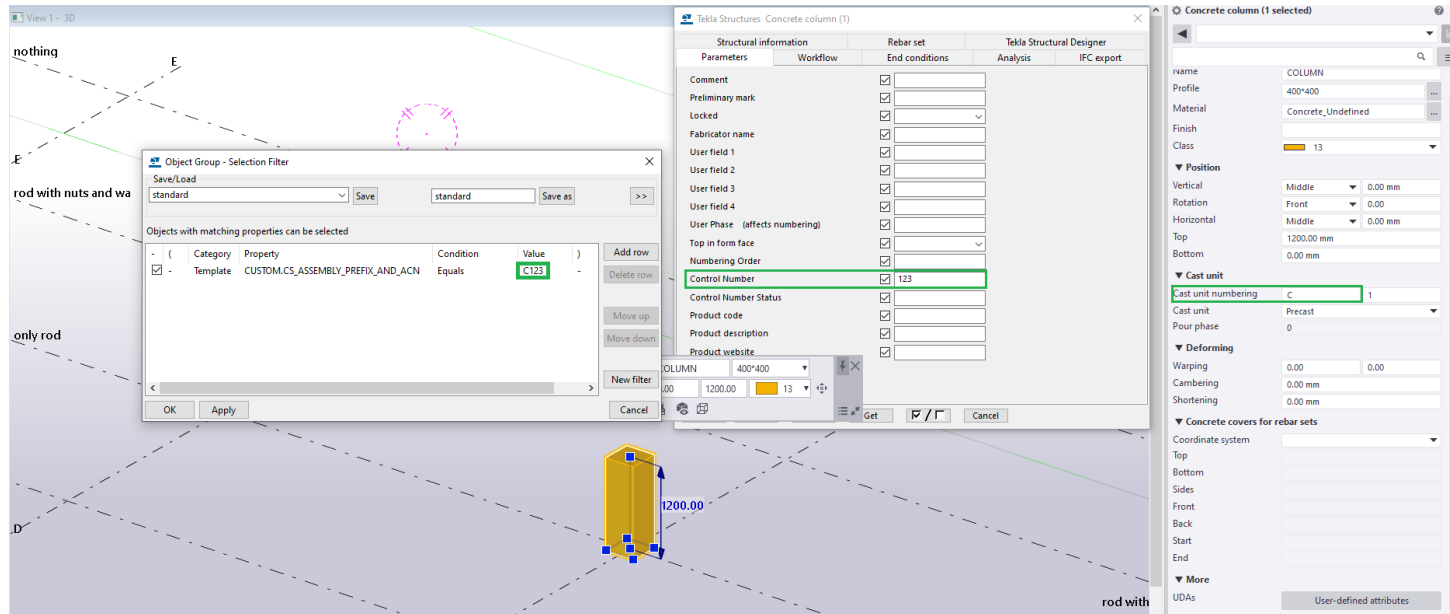
- Gets beam's bottom start and end notch lengths

See ML069



CUSTOM.CS_ASSEMBLY_PREFIX_AND_ACN

- Contains the concatenation of assembly prefix and CAN.



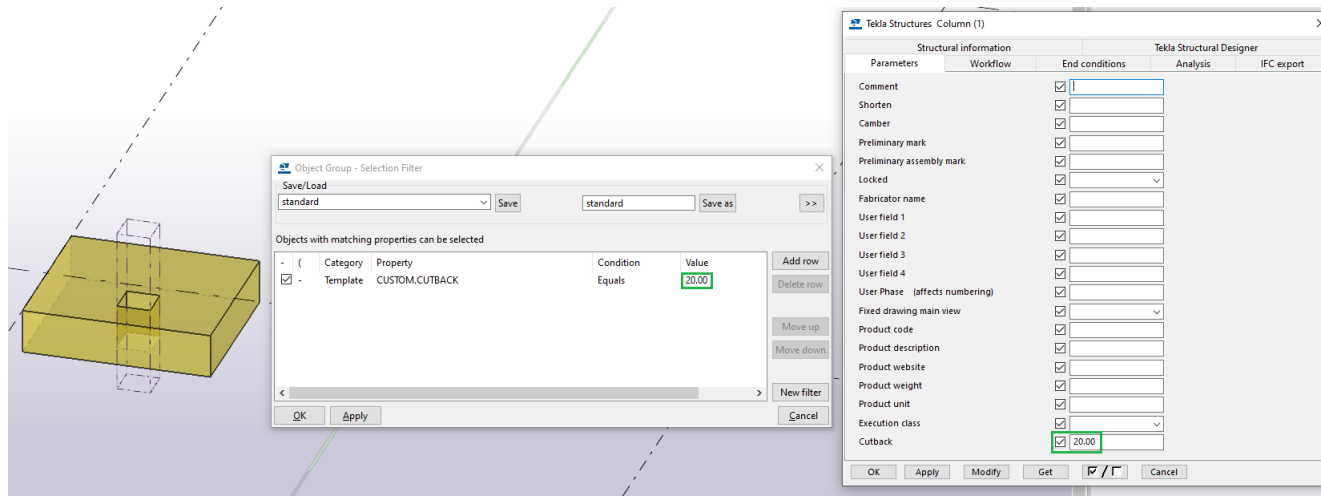
CUSTOM.CS_WELD_CONNECT_AS

- Returns 1 if weld connection is as: Sub-assembly.
- Returns 0 if weld connection is as: Secondary part.



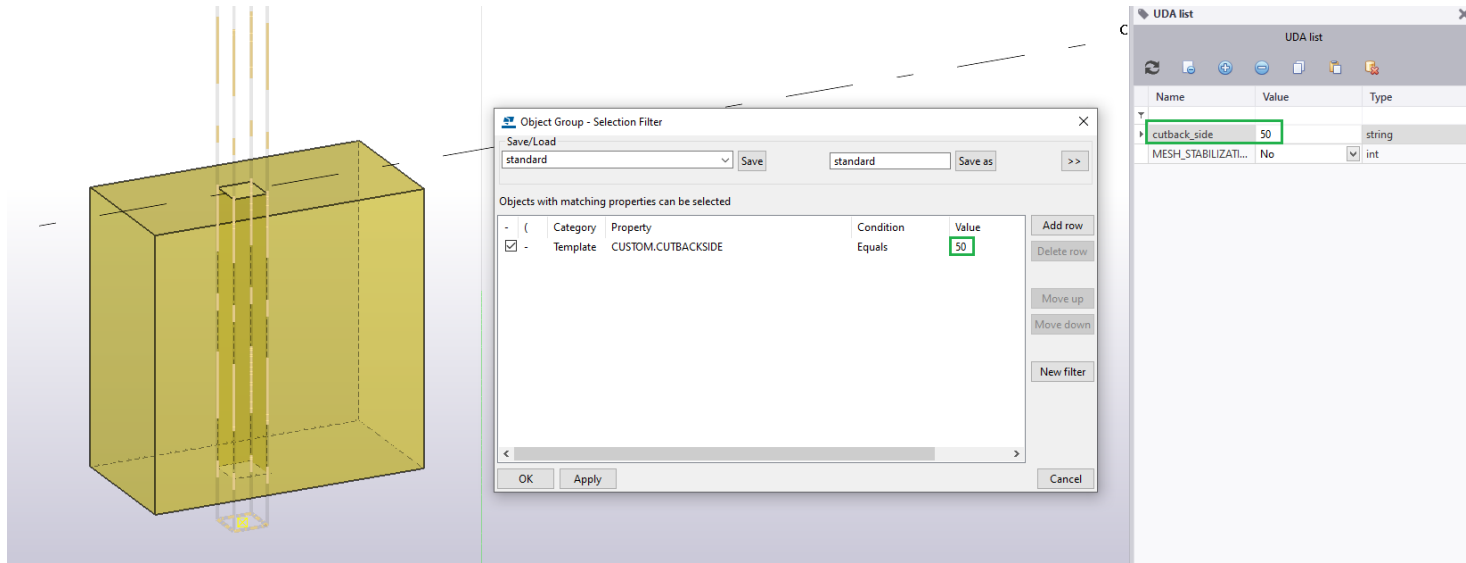
CUSTOM.CUTBACK

- Gets the cutback value from the boolean made by custom component CUTBACK.



CUSTOM.CUTBACKSIDE

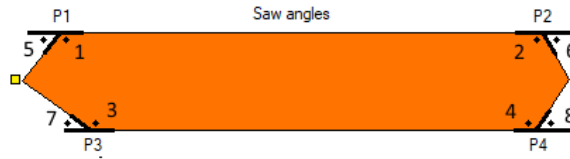
- Gets the cutback side from the boolean made by custom component CUTBACK.



CUSTOM.S1P1
CUSTOM.S1P2
CUSTOM.S1P3
CUSTOM.S1P4
CUSTOM.S2P1
CUSTOM.S2P2
CUSTOM.S2P3
CUSTOM.S2P4

- Gets beam's saw angles

See ML069



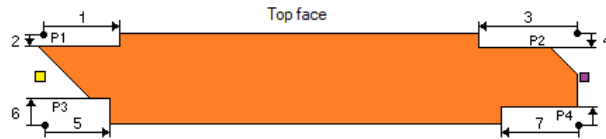
- | | |
|--------------------------------------|--------------------------------------|
| 1. <input type="text" value="S1P1"/> | 5. <input type="text" value="S2P1"/> |
| 2. <input type="text" value="S1P2"/> | 6. <input type="text" value="S2P2"/> |
| 3. <input type="text" value="S1P3"/> | 7. <input type="text" value="S2P3"/> |
| 4. <input type="text" value="S1P4"/> | 8. <input type="text" value="S2P4"/> |



CUSTOM.TOPB1
CUSTOM.TOPB2
CUSTOM.TOPB3
CUSTOM.TOPB4
CUSTOM.TOPH1
CUSTOM.TOPH2
CUSTOM.TOPH3
CUSTOM.TOPH4

- Gets beam's top start and end notch lengths

See [ML069](#)



1. Topb1	5. Topb3
2. Toph1	6. Toph3
3. Topb2	7. Topb4
4. Toph2	8. Toph4



CUSTOM.YL1
CUSTOM.YL2
CUSTOM.YL3
CUSTOM.YL4

- Gets beam's cut widths at the middle of the part

See ML069



CUSTOM.TOP_YL1
CUSTOM.TOP_YL2
CUSTOM.TOP_YL3
CUSTOM.TOP_YL4

- Gets beam's cut widths at part's top face

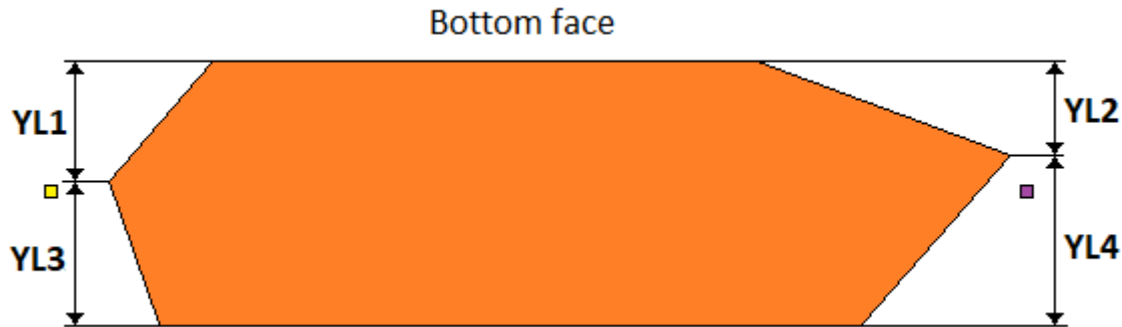
See [ML069](#)



CUSTOM.BOTTOM_YL1
CUSTOM.BOTTOM_YL2
CUSTOM.BOTTOM_YL3
CUSTOM.BOTTOM_YL4

- Gets beam's cut widths at part's bottom face

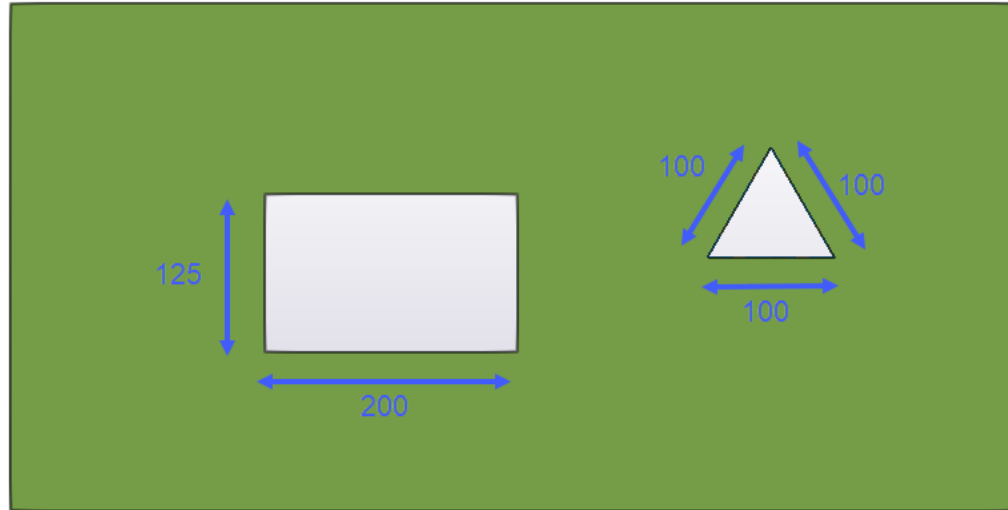
See [ML069](#)



Rest

CUSTOM.CS_INNER_PERIMETER

- Yields the sum of the perimeters of the inner contours on a contour plate.



-	(	Category	Property	Condition	Value
☒	-	Template	CUSTOM.CS_INNER_PERIMETER	Equals	950.00



CUSTOM.CS_LEVEL

- $\text{ASSEMBLY.BOTTOM_LEVEL_GLOBAL_UNFORMATTED} + \text{PROJECT.USERDEFINED.LEVEL_TAKEN_AT}) * 0,001$



CUSTOM.CS_NR_OF_PARTS_IN_ASM

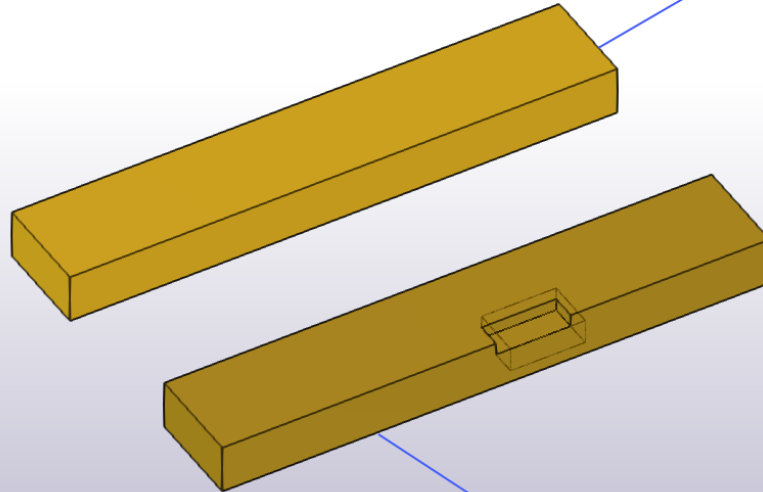
- A custom property that determines the number of parts in an assembly.



CUSTOM.PART_HAS_EDGE CUTS

- Indicates whether the selected part carries any negative volumes along its outer faces/edges.

-	(	Category	Property	Condition	Value
☒	-	Template	CUSTOM.PART_HAS_EDGE CUTS	Equals	0



-	(	Category	Property	Condition	Value
☒	-	Template	CUSTOM.PART_HAS_EDGE CUTS	Equals	1



CUSTOM.PART_IS_PROFILED

- Indicates whether or not the selected part is profiled.

