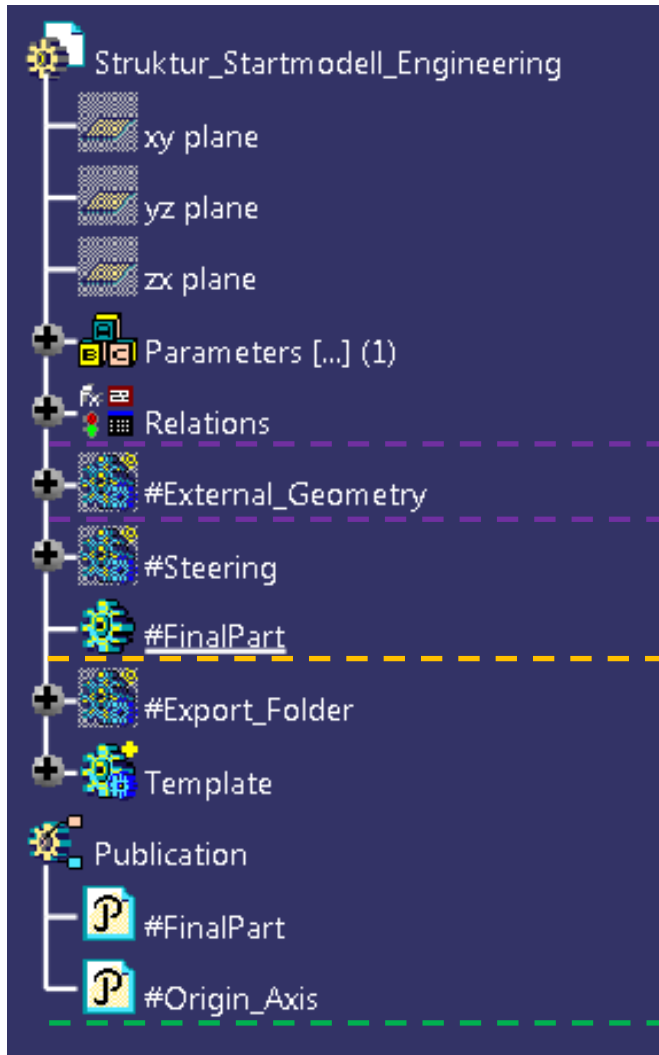




CATIA – Boost your knowledge!

The new Kärcher Startmodel

General Structure



Important:

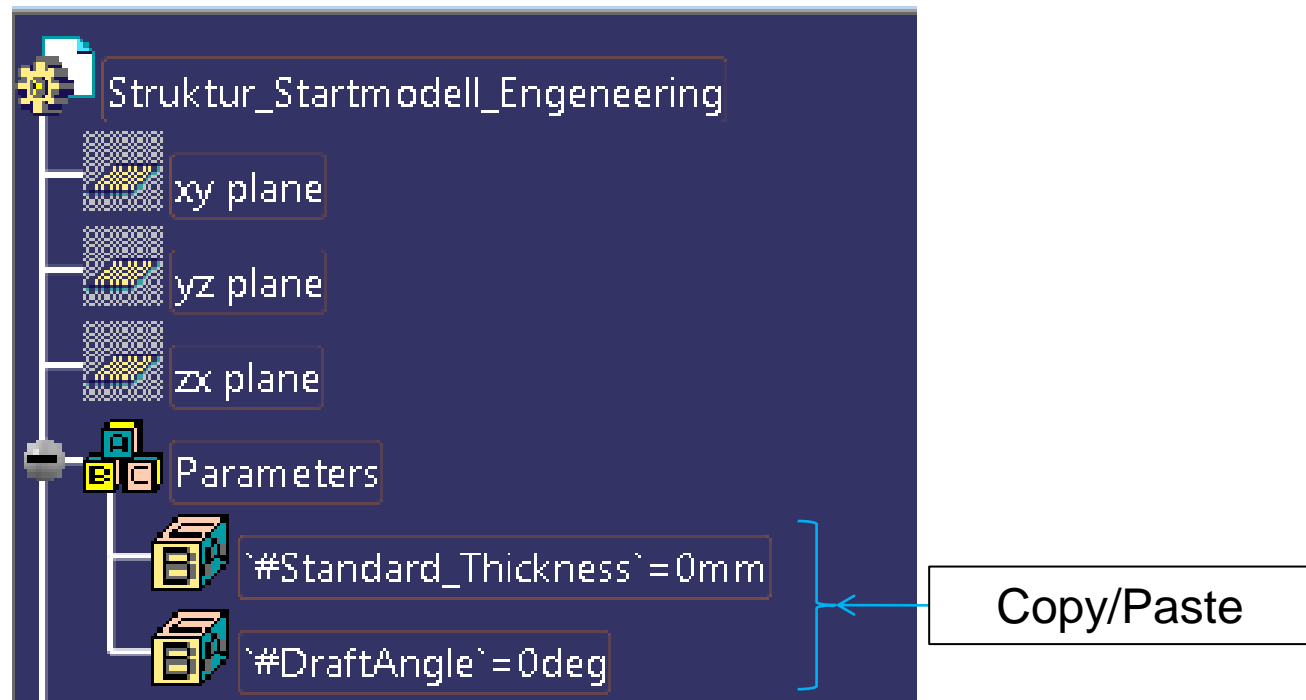
It's not allowed to rename or delete Bodies and Geometrical Sets with a # in the name.



Input

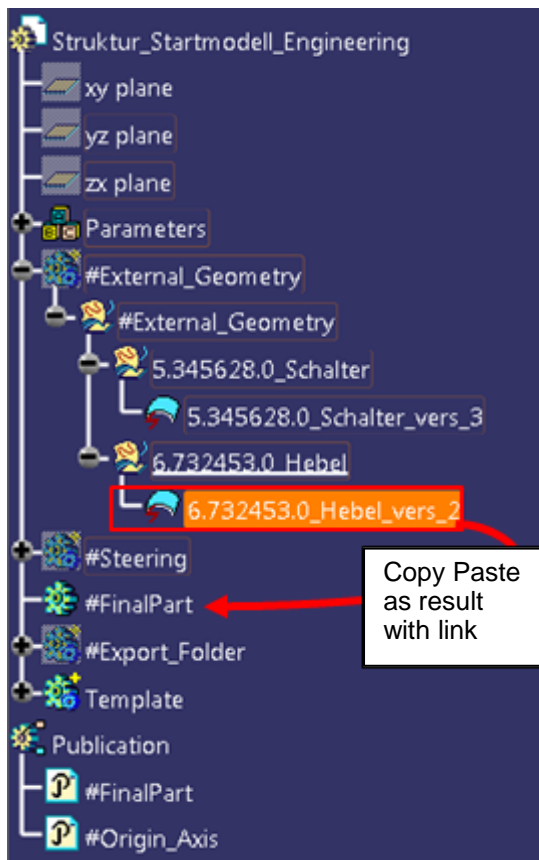
Processing

Output



- The pre-defined parameters can be used as template –
„#Standard_Thickness“ can be copied for all length parameters,
„#DraftAngle“ for all angles.
- The pre-defined parameters can also be used and modified!

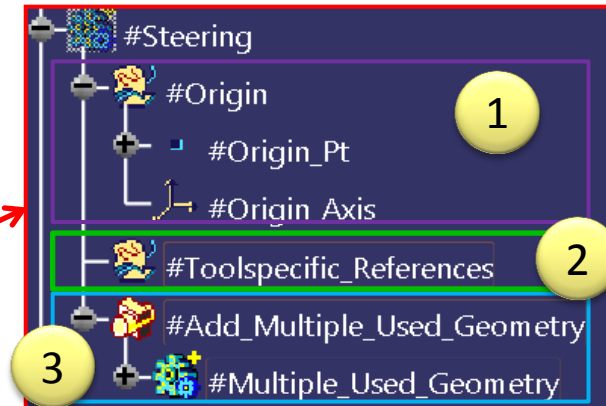
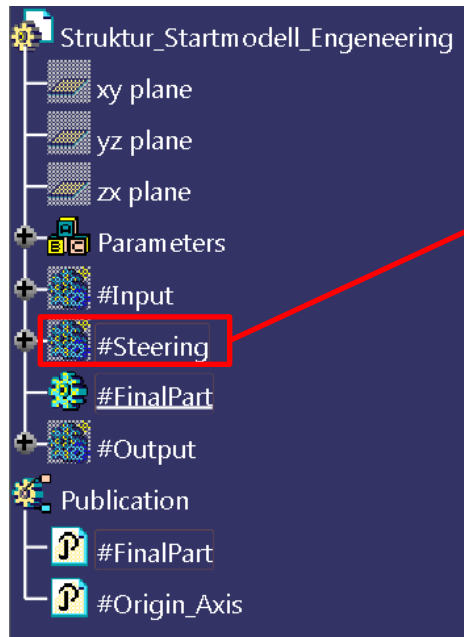
References From Other Parts



All geometries from other parts must be pasted into the body **#External_Geometry**.



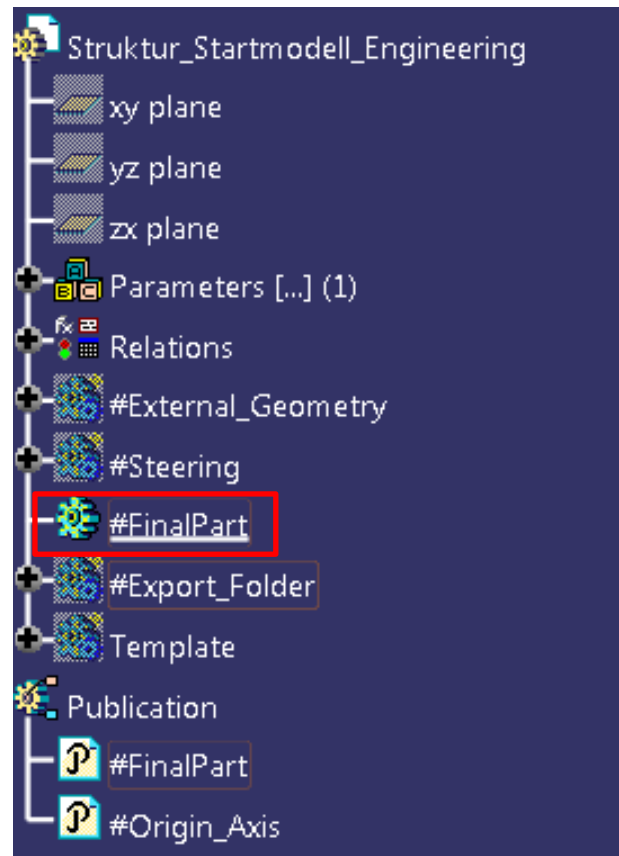
From here the geometry can be used with **[Copy Paste as result with Link]** (CPL) in the following design.



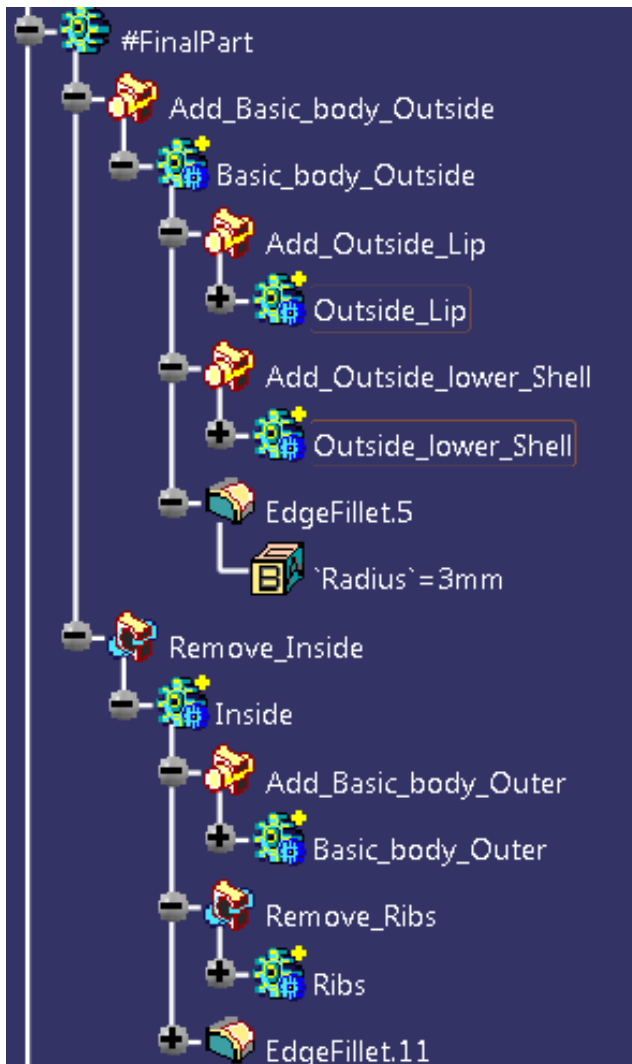
#Steering contains general steering features for the design.

#Steering is divided into:

1. **#Origin:** contains part origin and basic axis system
2. **#Toolspecific References:** contains tool specific references such as parting surfaces, draft directions, etc. (Sub-structuring with geometrical sets is permitted.)
3. **#Multiple Used Geometry:** contains geometry that's used multiply in the design. These geometries can be copied and pasted with link in the respective body in the **#FinalPart**.



The **#FinalPart** contains the complete resulting geometry for the part.
You should use sub-structures with bodies (Boolean Operations) and geometrical sets to have a clear structure

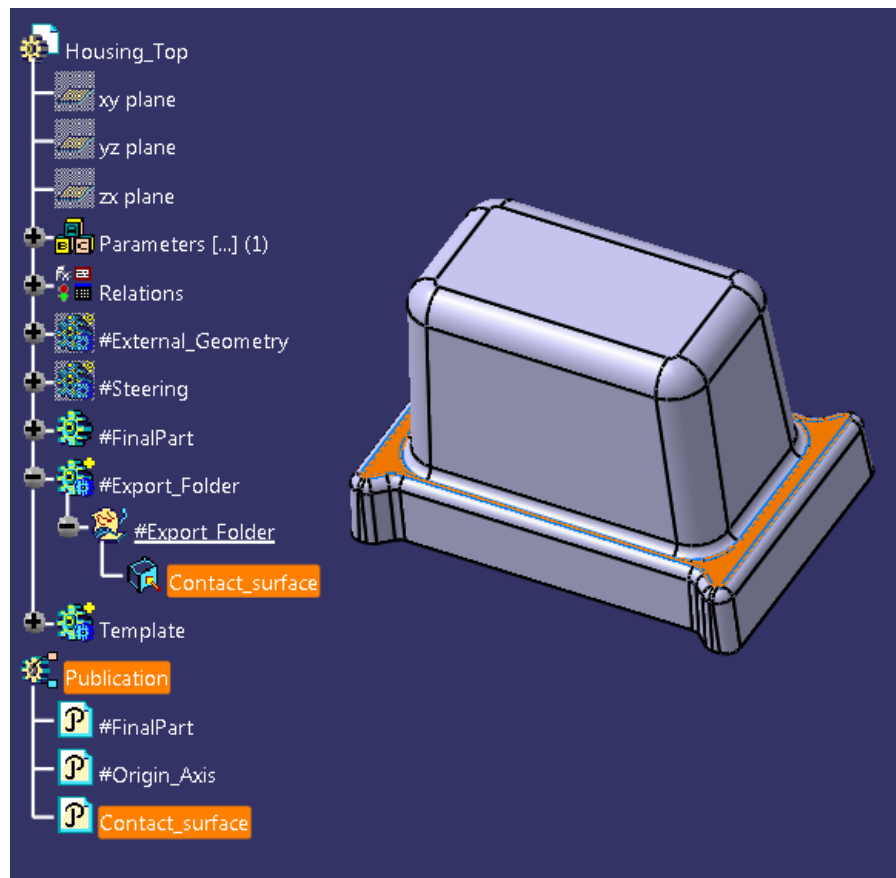


Sub-structures should fulfill these demands:

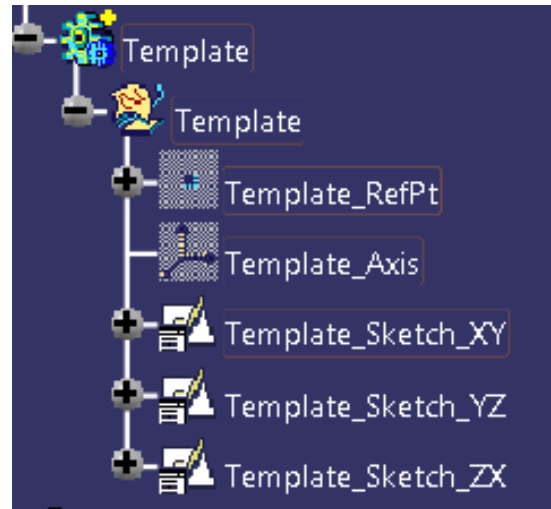
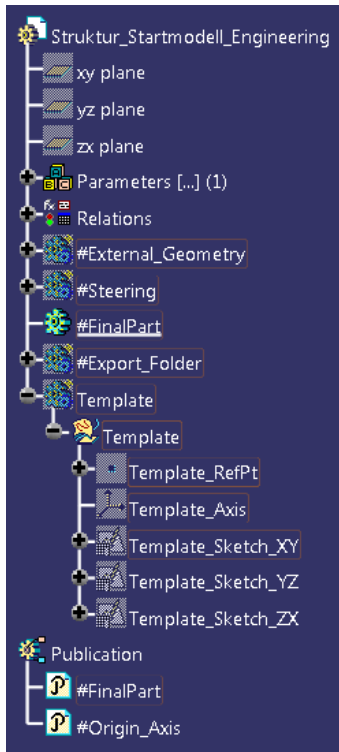
- Documentation in an individual "**Body**" or "**Geometrical Set**"
- can be positioned with positioning points
- design with sketches (**Positioned Sketch**)
- geometrically independent from the rest of the design
- sketches are set into Hide
- sensible naming (surface results are named like their **Geometrical Set**)




References To Other Parts

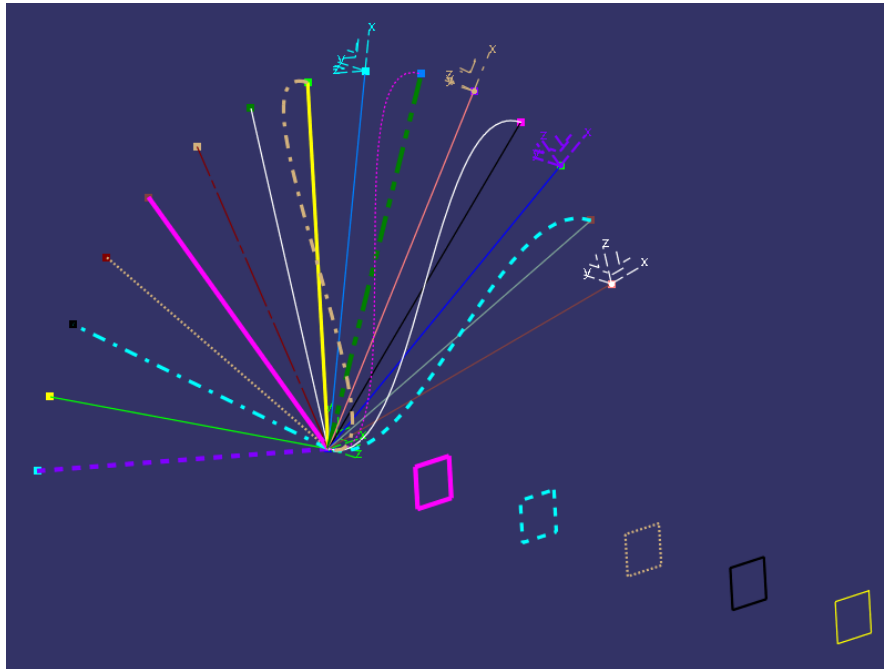


Exchange geometry (e.g. for tooling) can be put into **#Export_Folder** by using extract or CPL.



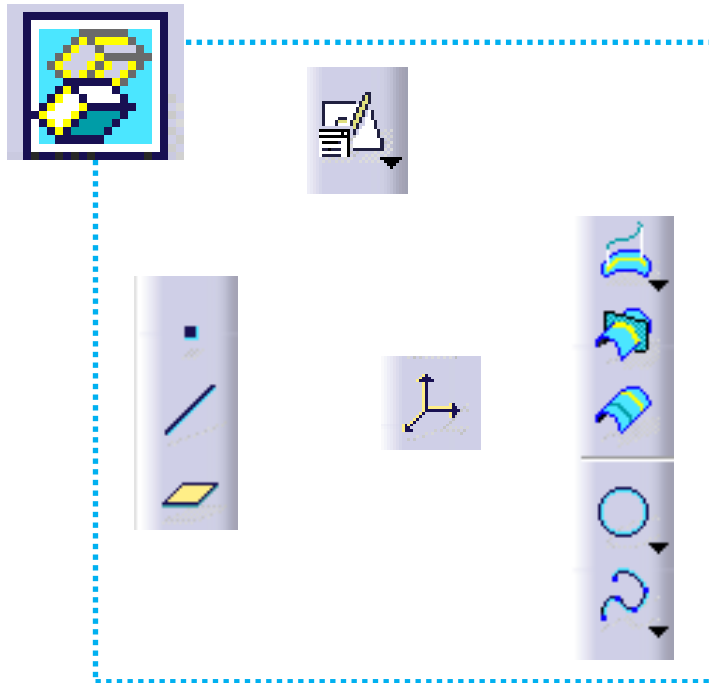
The **Template** is a pre-defined body that contains standard features like point, axis system and main sketches. It is used as master copy for surface and solid design.

The sketches refer to the respective planes and the origin of the axis system. Thus the complete structure can be positioned by editing the reference point of the respective geometrical set. 



Colours, thickness and linestyle can be chosen as you like for all wireframe geometry.

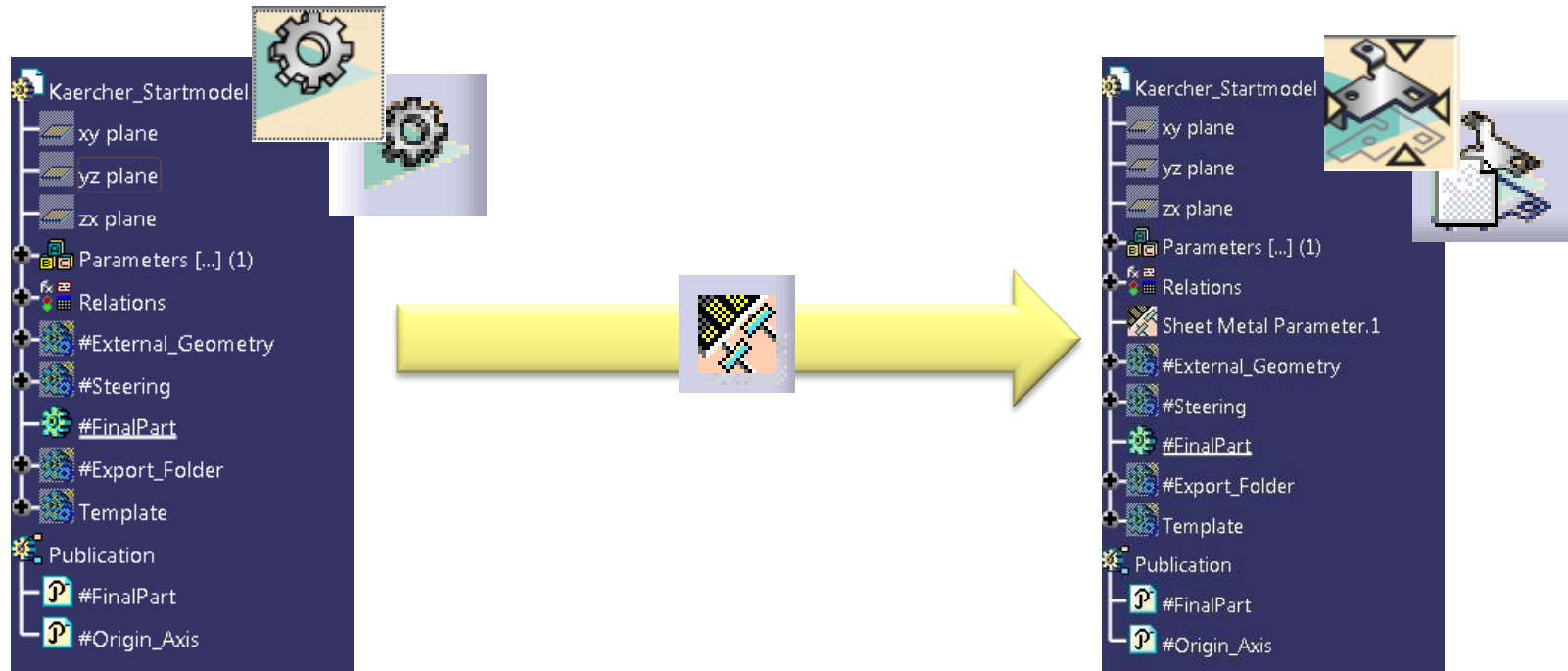
Hide/Show



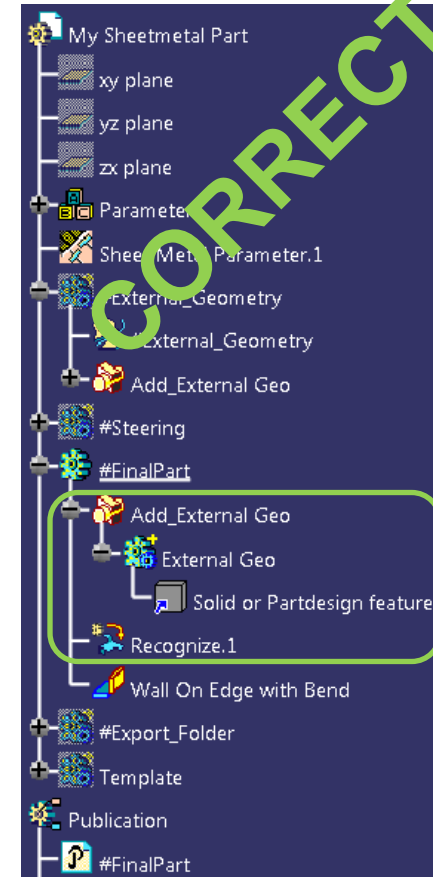
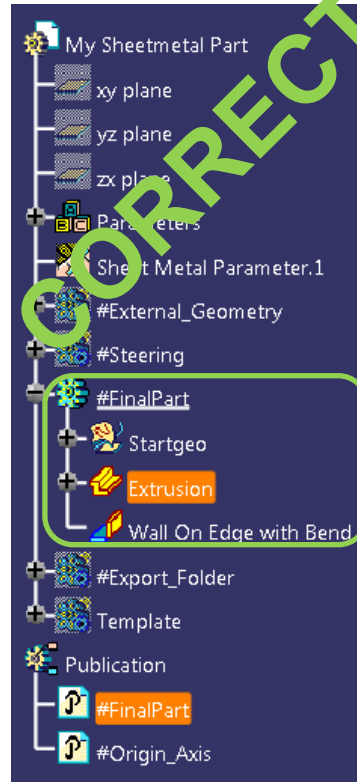
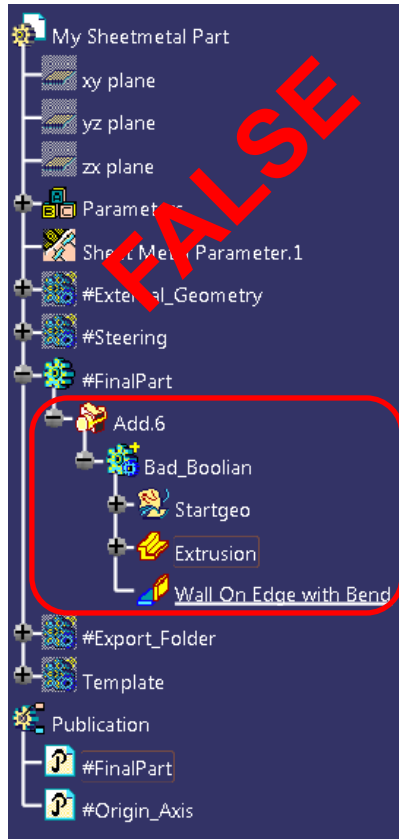
All the wireframe geometry has to be in Hide. This includes:

- Points
- Planes
- Axissystems
- Curves/Lines
- Sketches

Startpart for Shetmetal Design



Use the same Startmodel for PartDesign and Sheetmetal. Due to the sheetmetal parameter, the Startmodel is defined as a Sheetmetal part for the Q-Checker.



Don't use Boolean Operations for structuring your **Sheetmetal Parts!** Else the „unfolded View“ doesn't work. Please work directly inside the #FinalPart. Only one Boolean Add is allowed in special cases, e.g for Recognize

Questions? Problems? Suggestions?

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