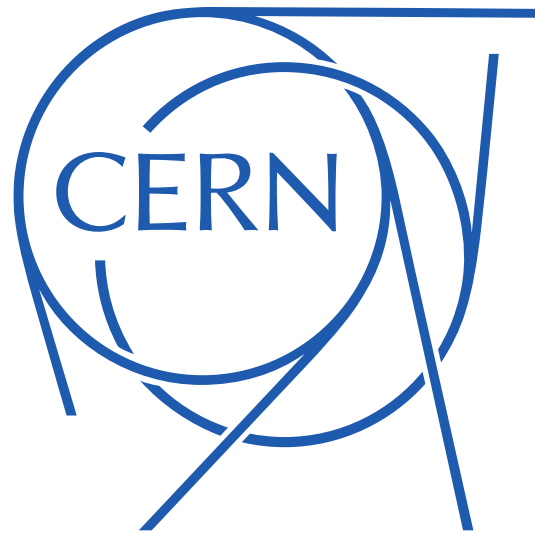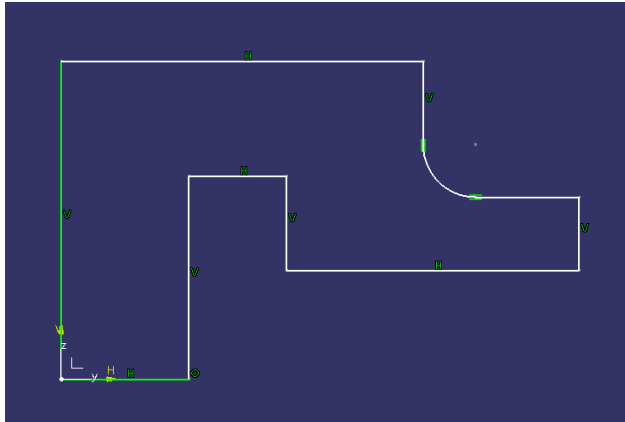# 2nd CERN CAD Forum

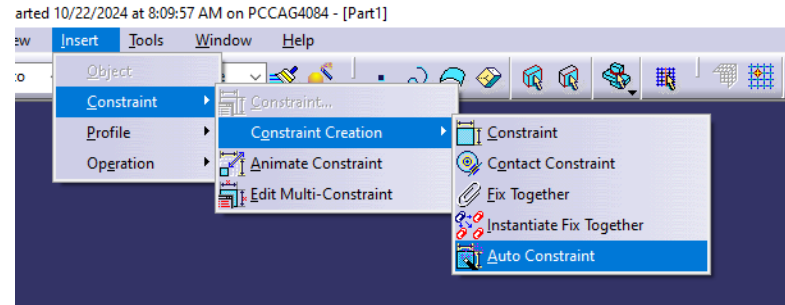# Tips and tricks

24.10.2024 – E.Urrutia

Table of content :

- Auto constraint tool in sketch
- Apply blended corner for more controlled smoothness
- Quick new circle
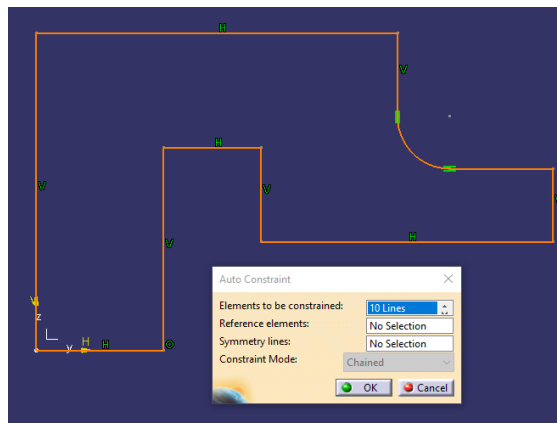- CATIA deleting material from PartBody

Auto constraint

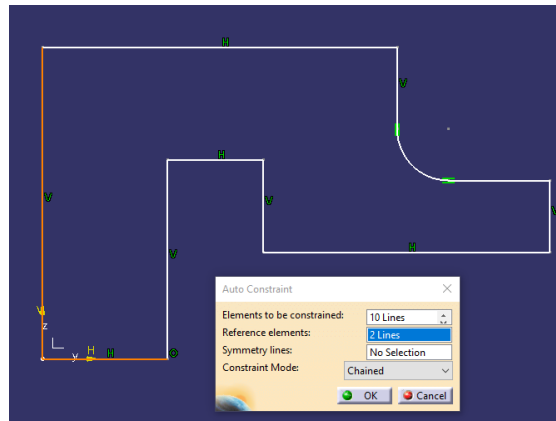# Auto constraint tool allows to save time for sketch creation
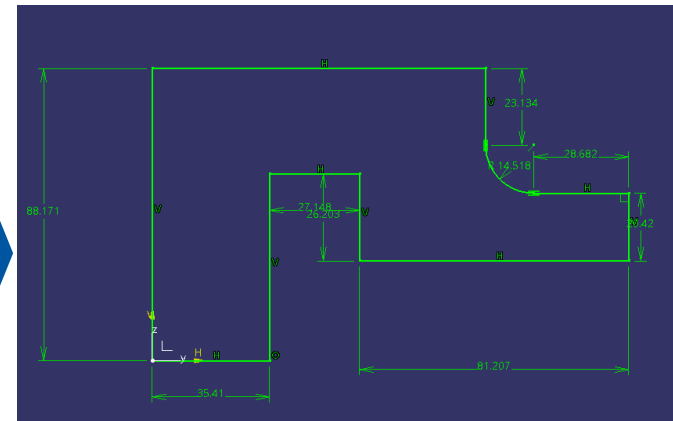

Sketch to constraint

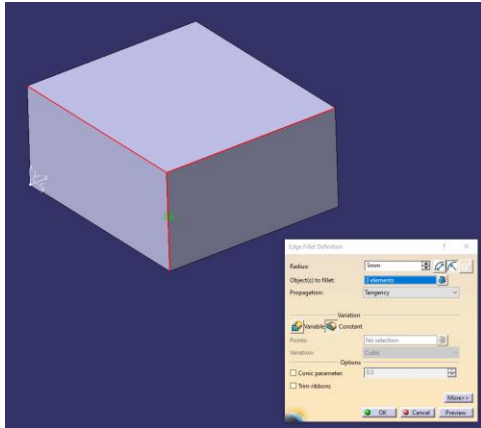Select Auto constraint tool

Select éléments to be constrained

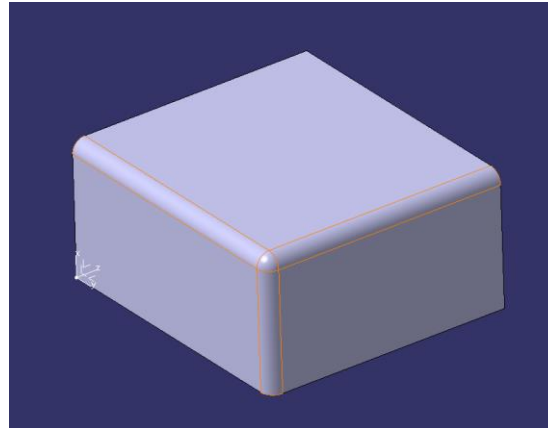Select profile reference éléments

Click Ok to create dimensions and edit them
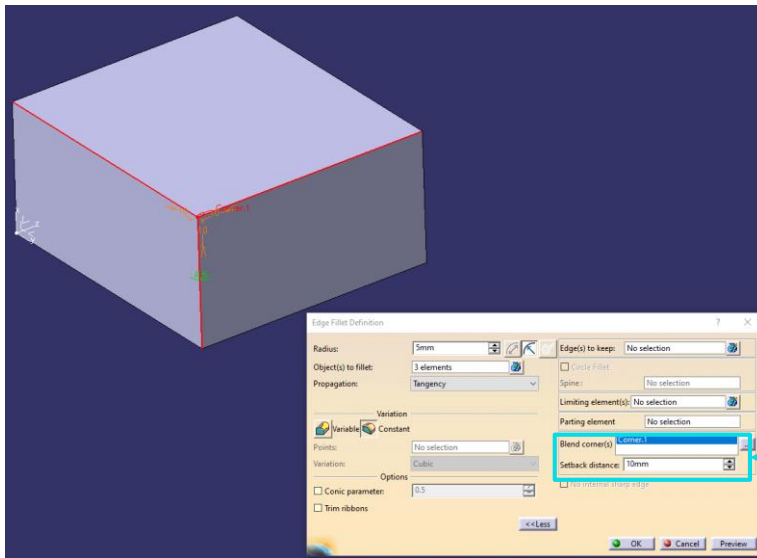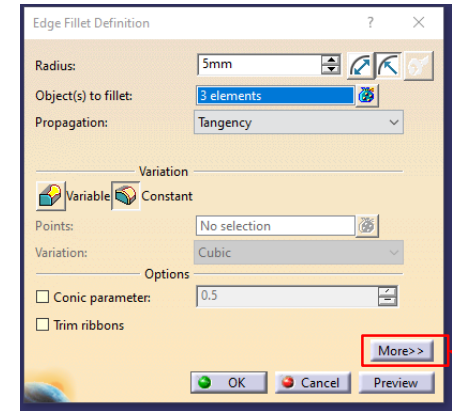
Blended corner

Apply blended corner for more controlled smoothness
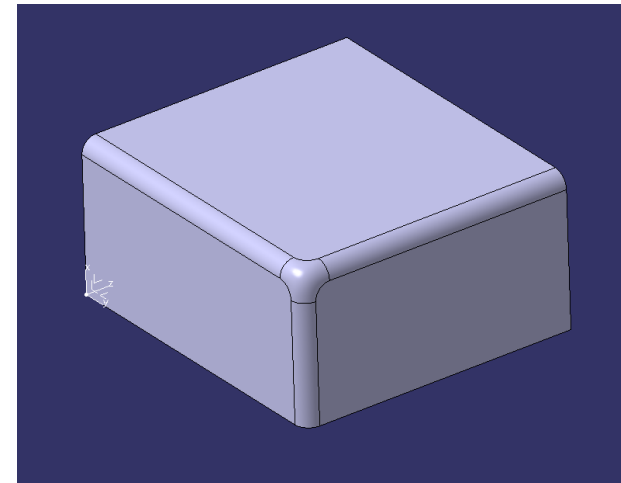

Radius on edges converging at a point
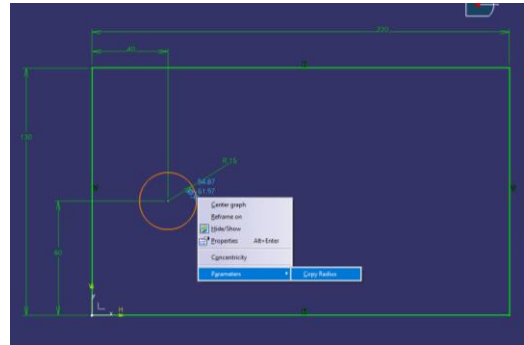

Standard result with same radius value

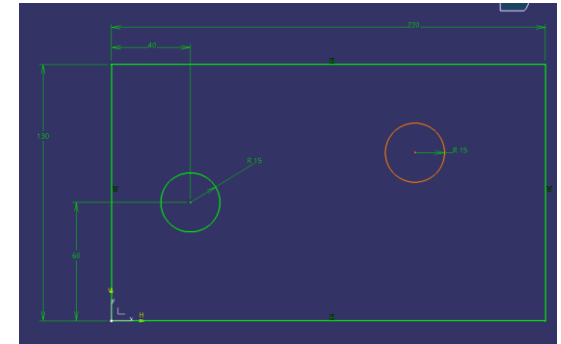Blend corner dialog box allows to drive values for edges at the intersection point

Quick new circle

When repeting circle creation in a sketch, a right click on previous circle can facilitate creation of a new circle (concentricity, radius)
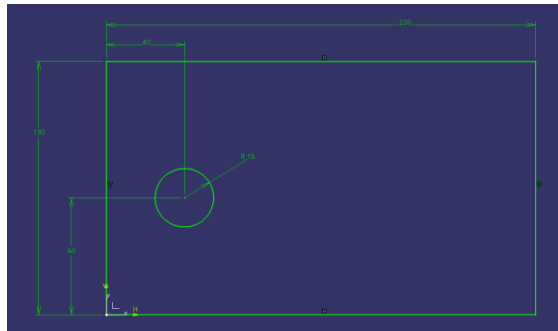
Circle tool + right-click on previous one
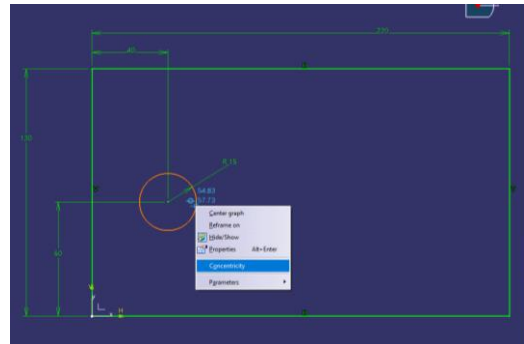

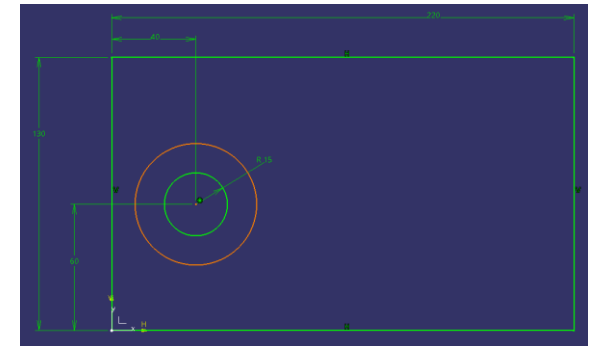Choose «copy radius»

Circle created with same radius

Existing circle in a sketch

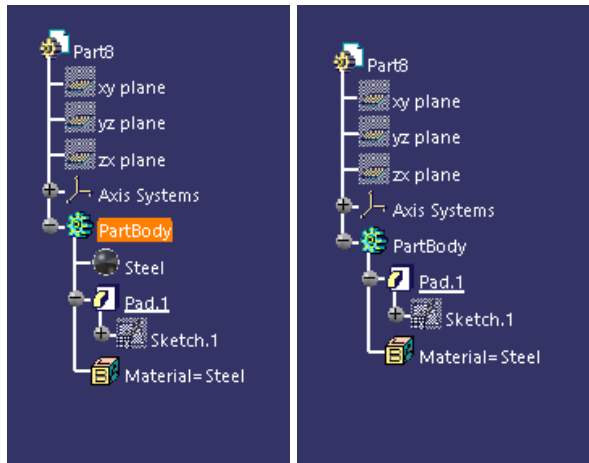Circle tool + right-click on previous one

Choose «concentricity»

Concentric circle created

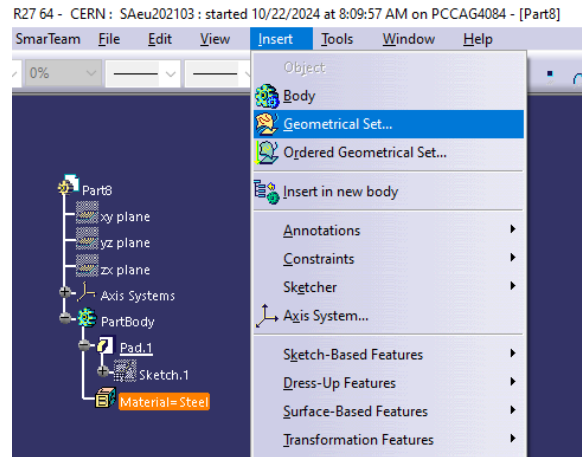# CATIA deleting material from PartBody

When material is applied on PartBody instead of the Part, the material parameter remains even after the deletion

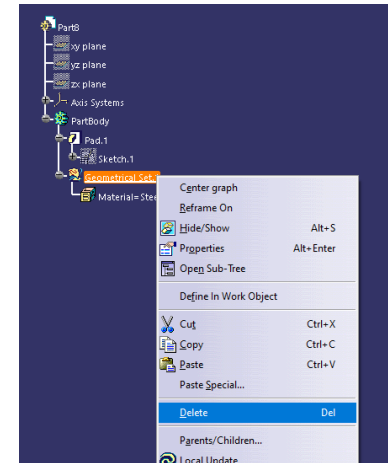## Note : except for specific use, material must always be applied on the Part

Marterial applied on PartBody instead of the Part

After material deletion, the material parameter remains with no possibility to delete it

By cliking on the parameter in the tree and select insert > Geometrical Set > Ok

The paramater can be inserted in a new Geometrical Set

This Geometrical Set can be delete with the parameter