BVN Functional cover
SWOOD Beam & Wall 2024 SP0

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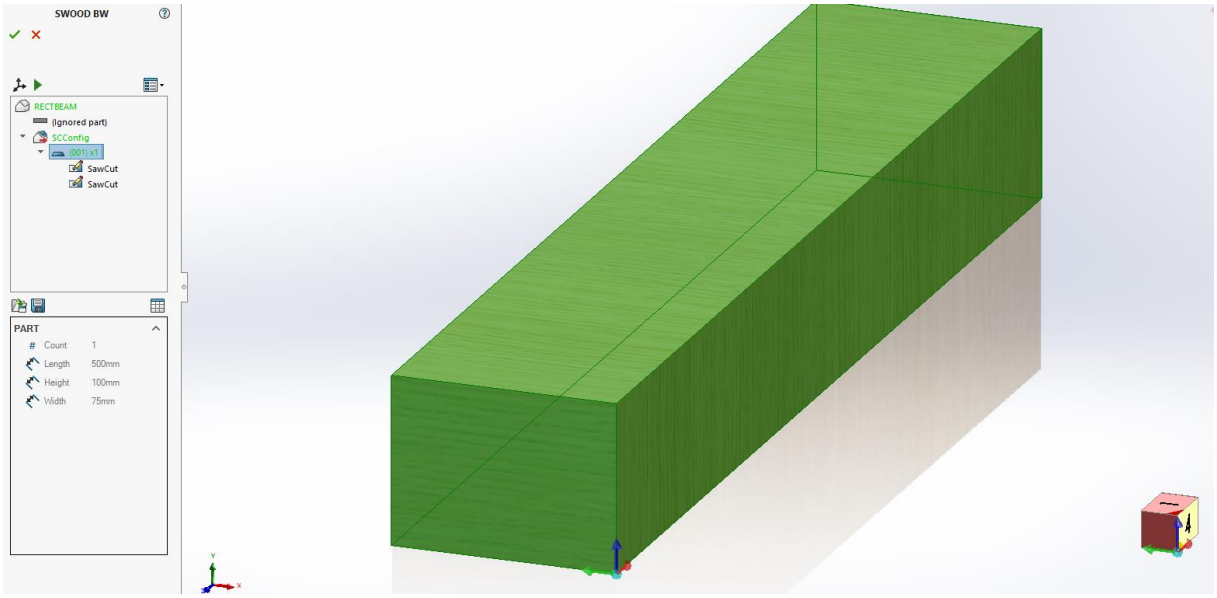
Summary

I. BVX Recognition

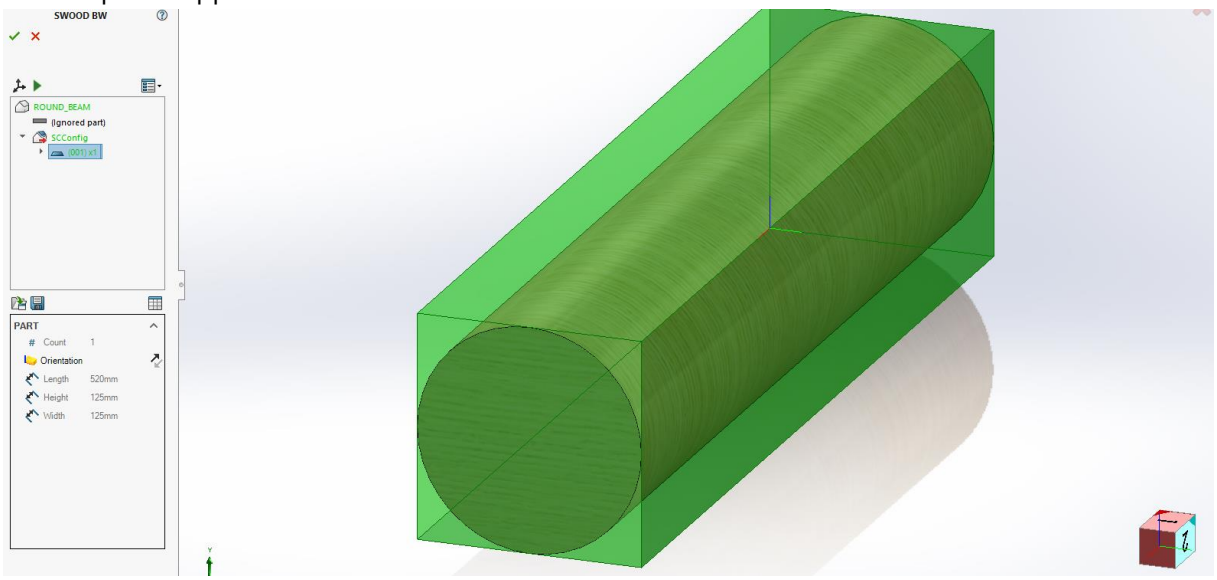
1. Box

BVN export support rectangular beam.



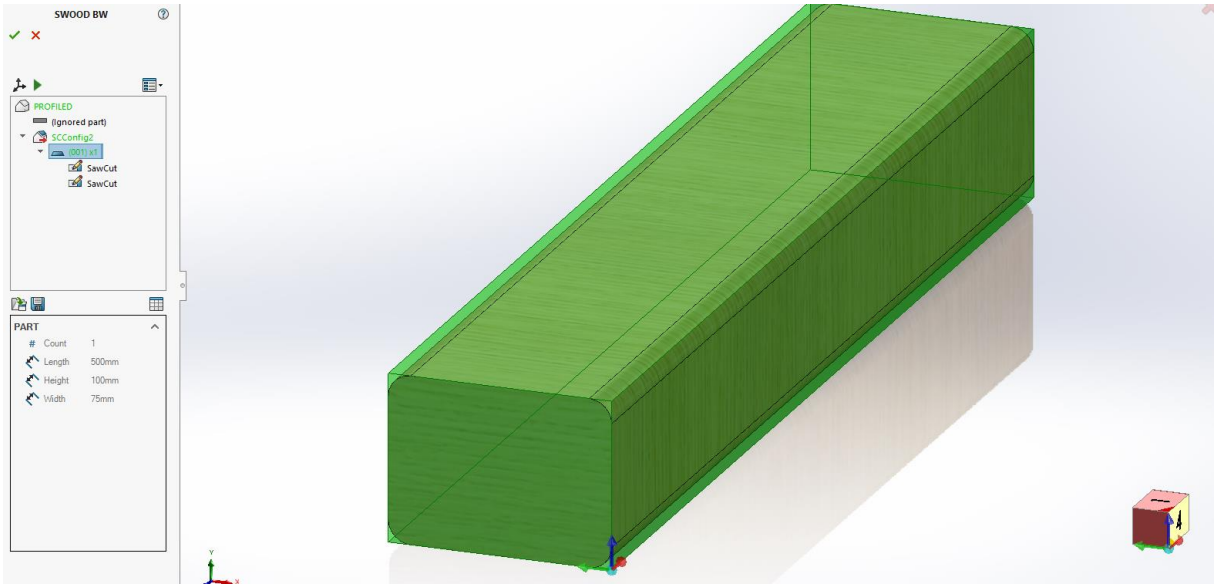
2. Round Beam

BVN export support round beam.



3. *Profile*

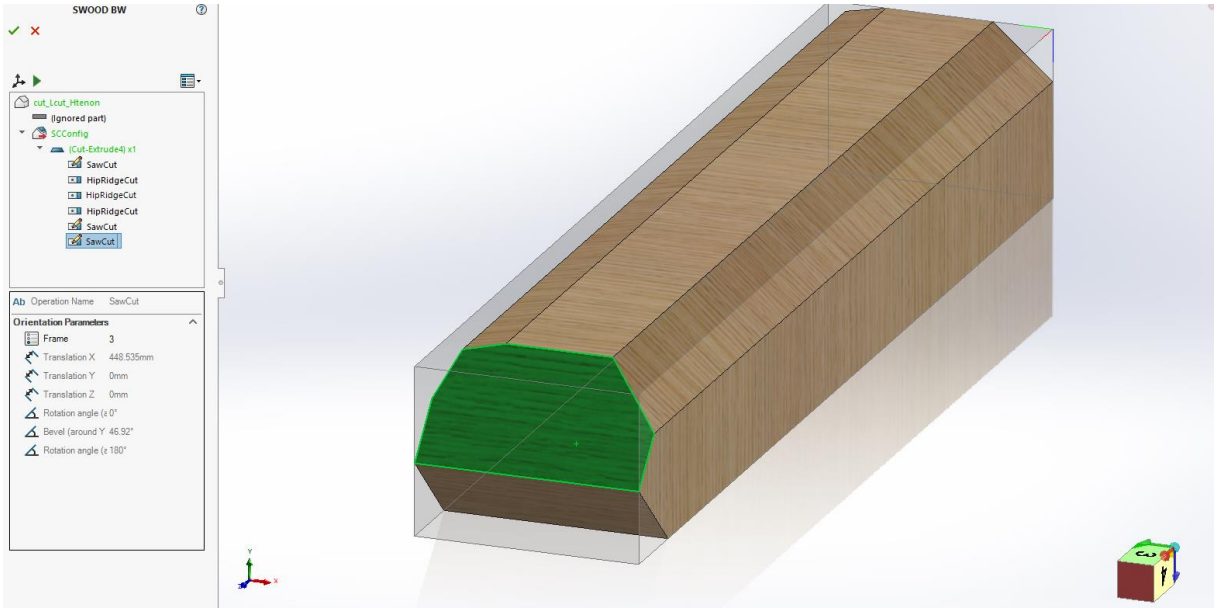
If a beam is profiled, that it is not rectangular in shape, we can use the option "Exclude section profile" to ignore the faces that compose the profile.



II. BVX Macros

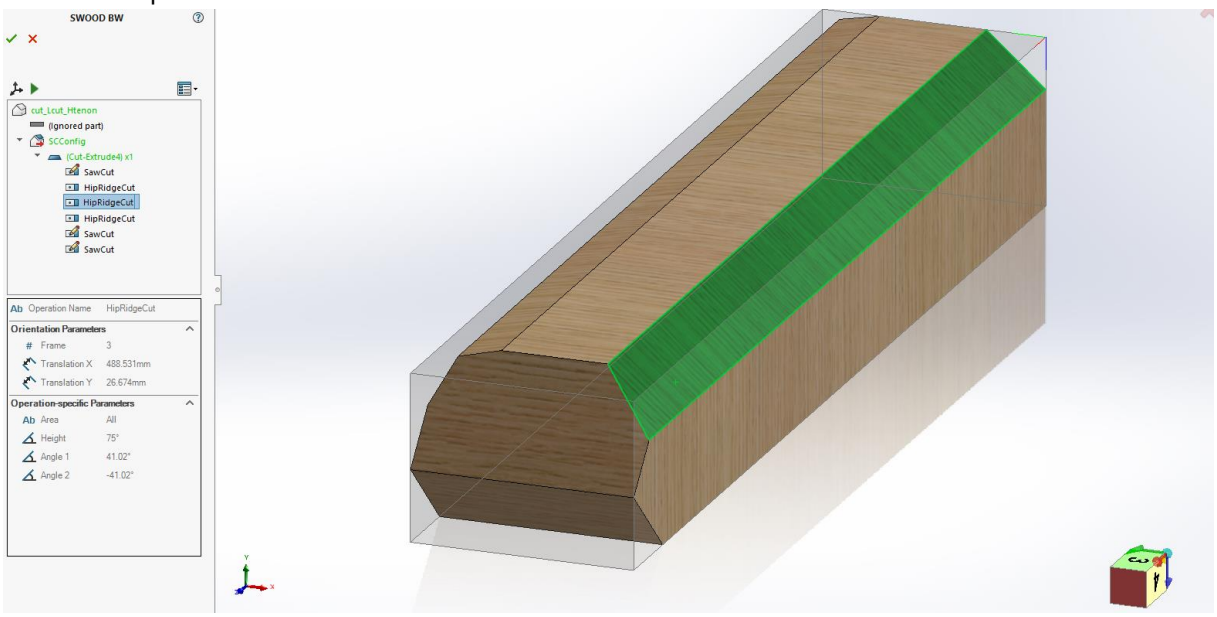
1. Saw Cut

A plane that is perpendicular to the longest axis of the beam, and that is part of the convex shape of the beam.

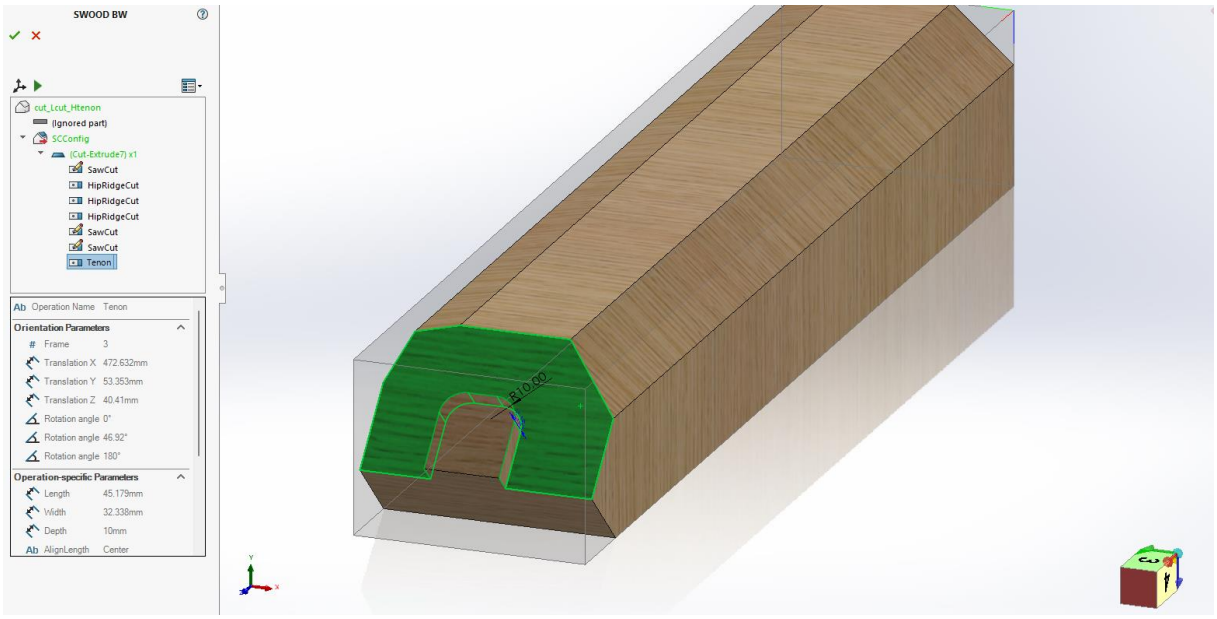


2. HipRidgeCut

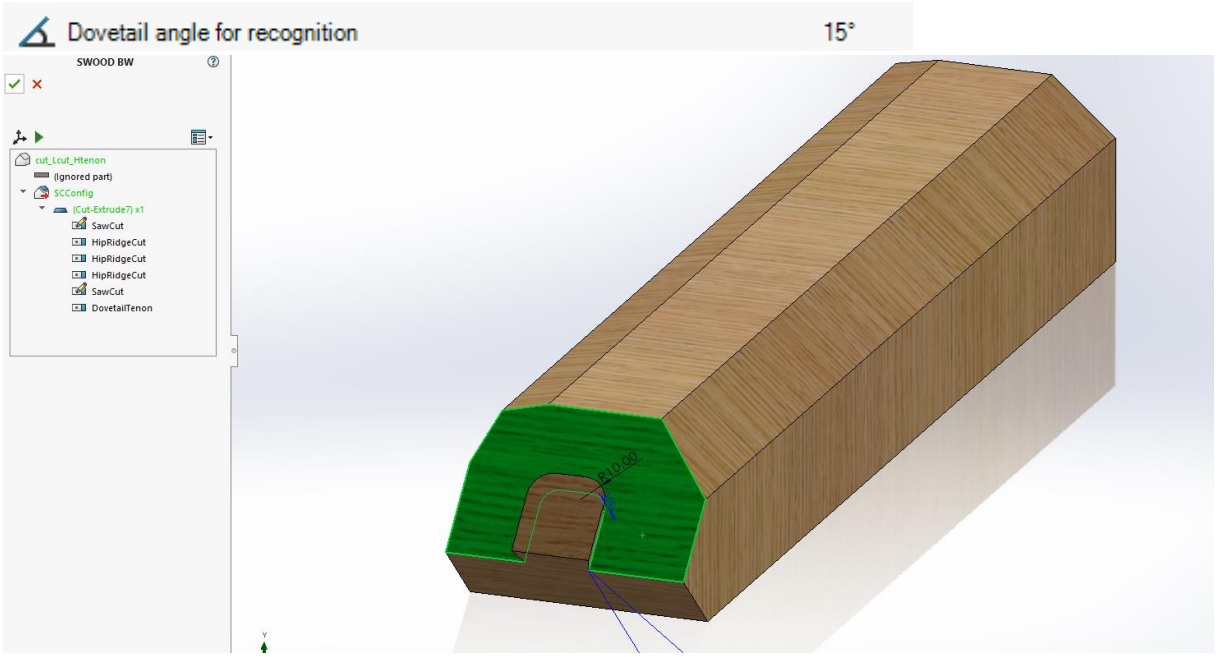
A plane that is not perpendicular to the longest axis of the beam, and that is part of the convex shape of the beam.



3. *Tenon*



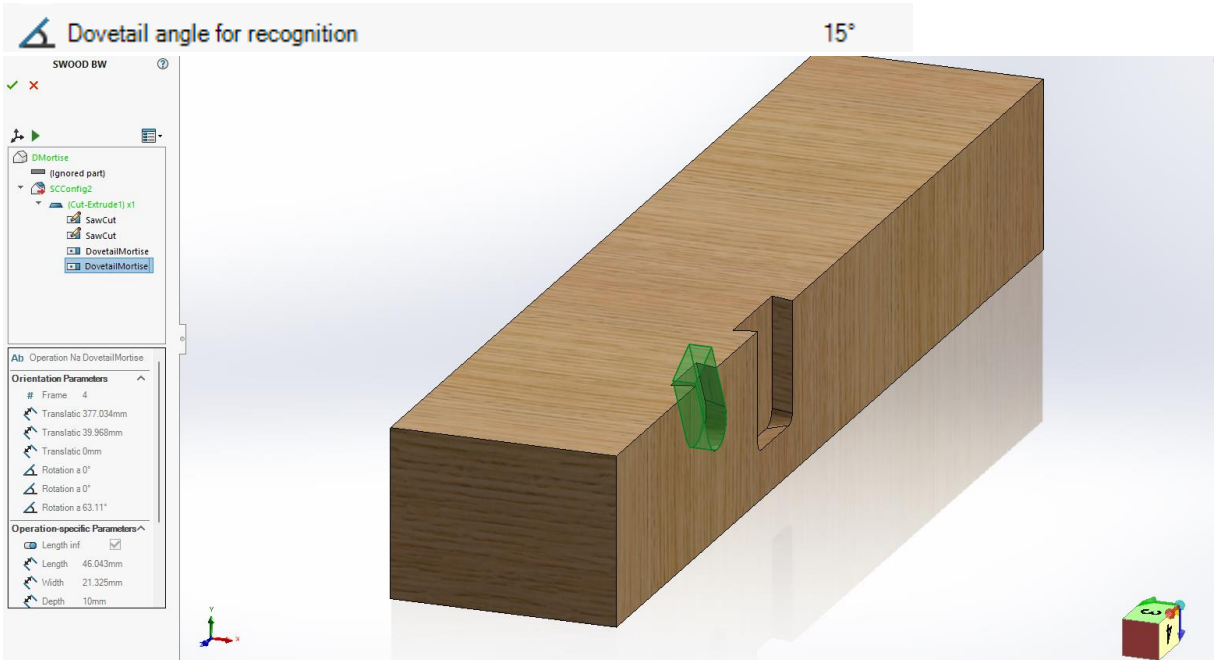
4. *DovetailTenon*



5. *Mortise*

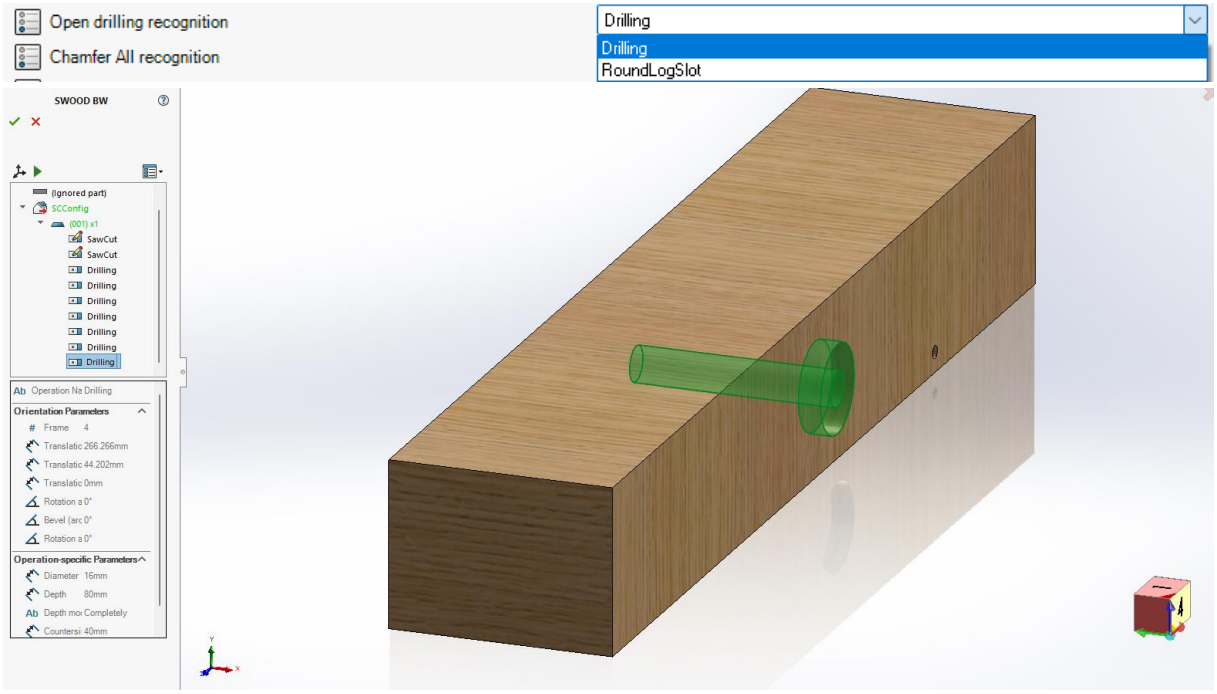
Rectangular pocket are usually recognized as PLUMB HOUSING but it's possible to output them as mortise. Rounded rectangle and oblong pocket are always recognized as mortise

6. *DovetailMortise*



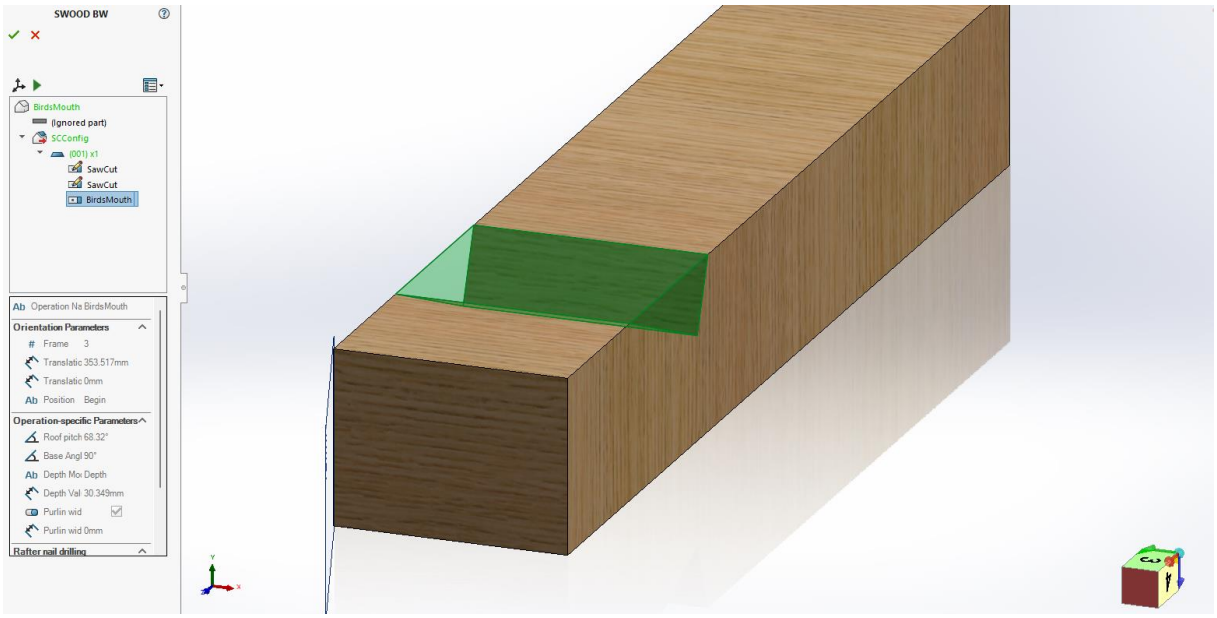
7. *Drilling*

Cylinders that are not open, countersink parameters can be configured in the tool list. Opened drilling can be outputted a drilling as well.



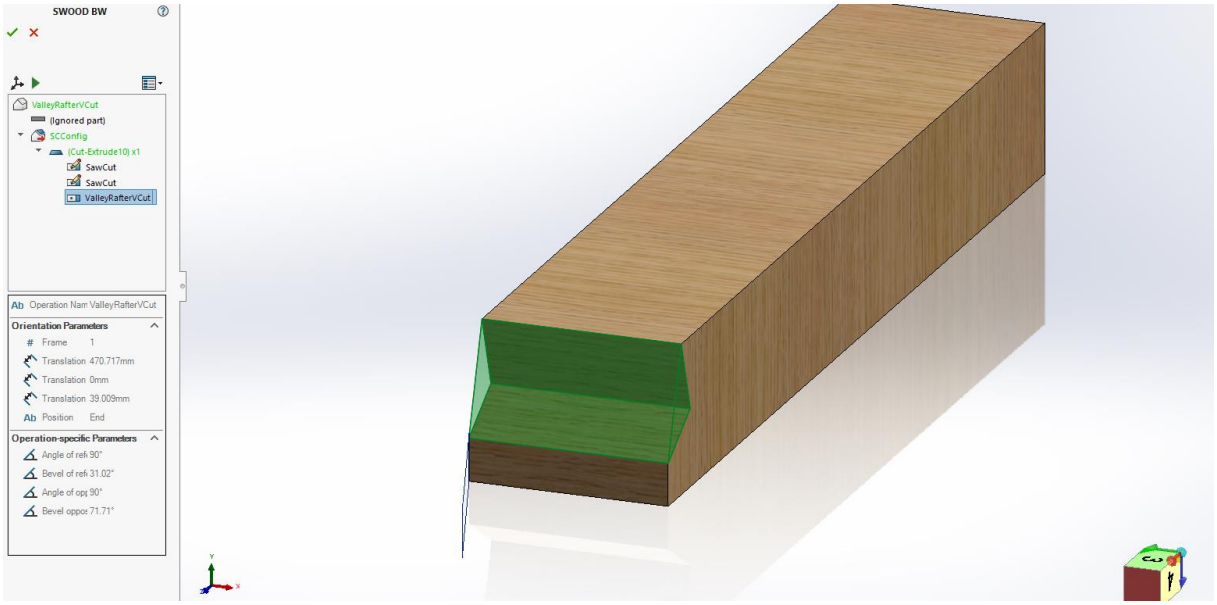
8. *BirdsMouth*

Two perpendicular faces with a common edge that have the same axis as Y or Z. With normal faces different than X axis



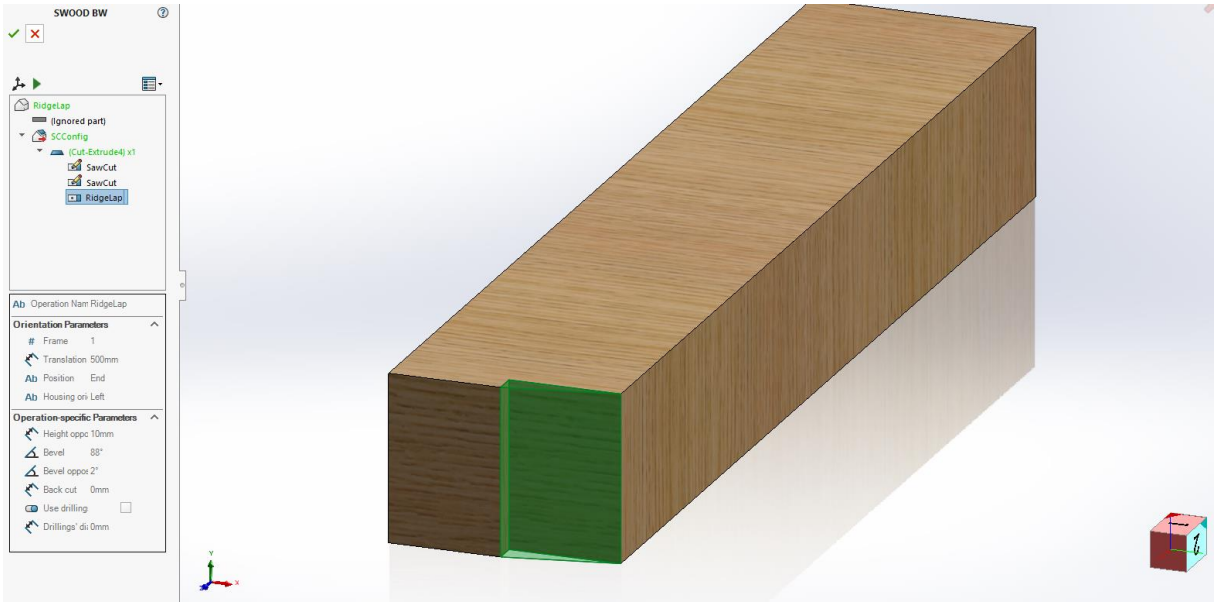
9. *ValleyRafterVCut*

Double cut at the front/end of the beam.



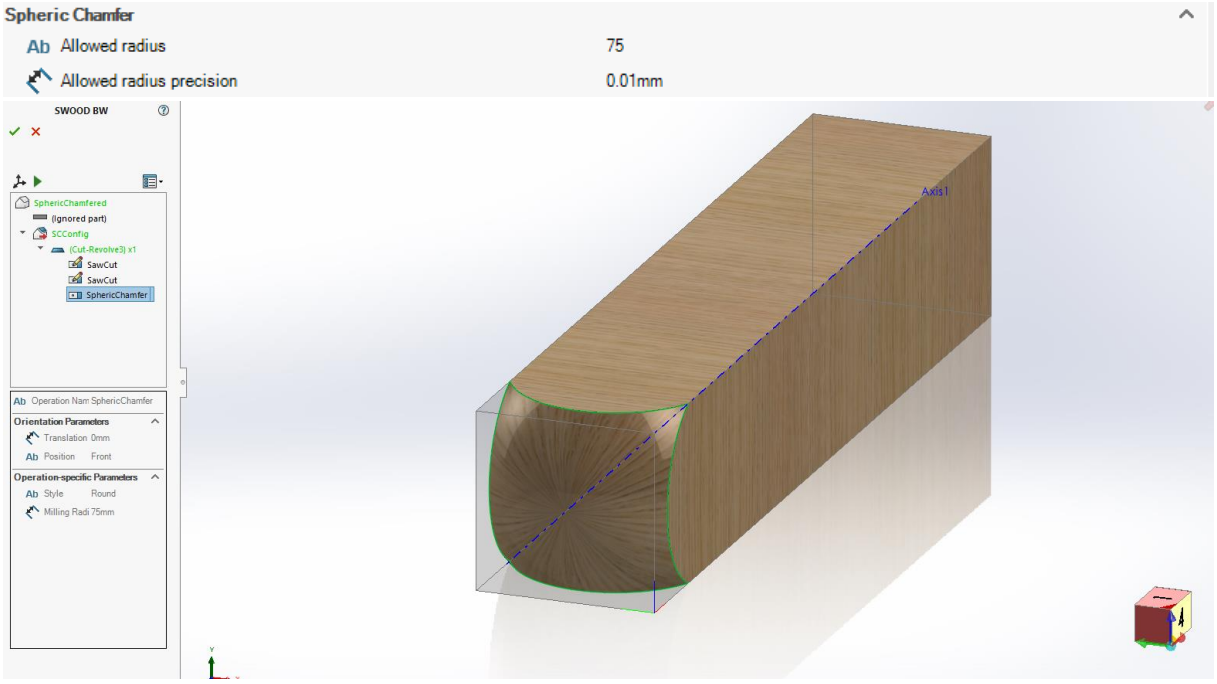
10. *RidgeLap*

Double cut with both faces perpendicular to each other, double cut width is half beam width.



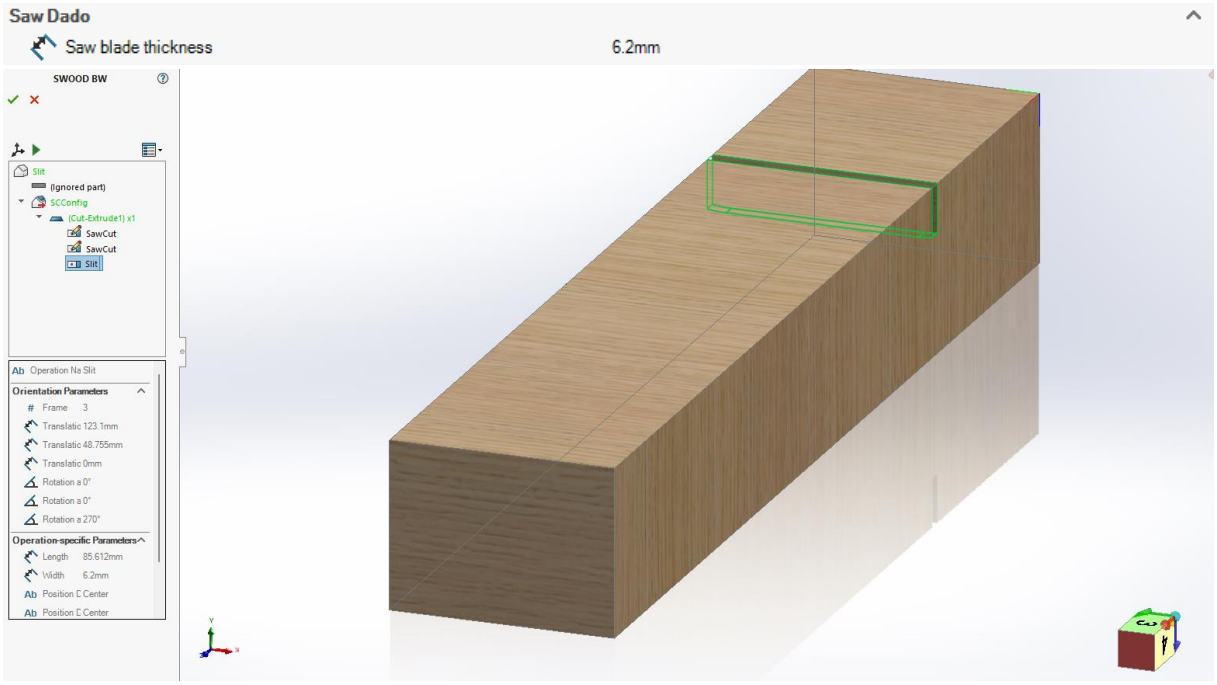
11. SphericChamfer

Spheric faces that matches configuration radius

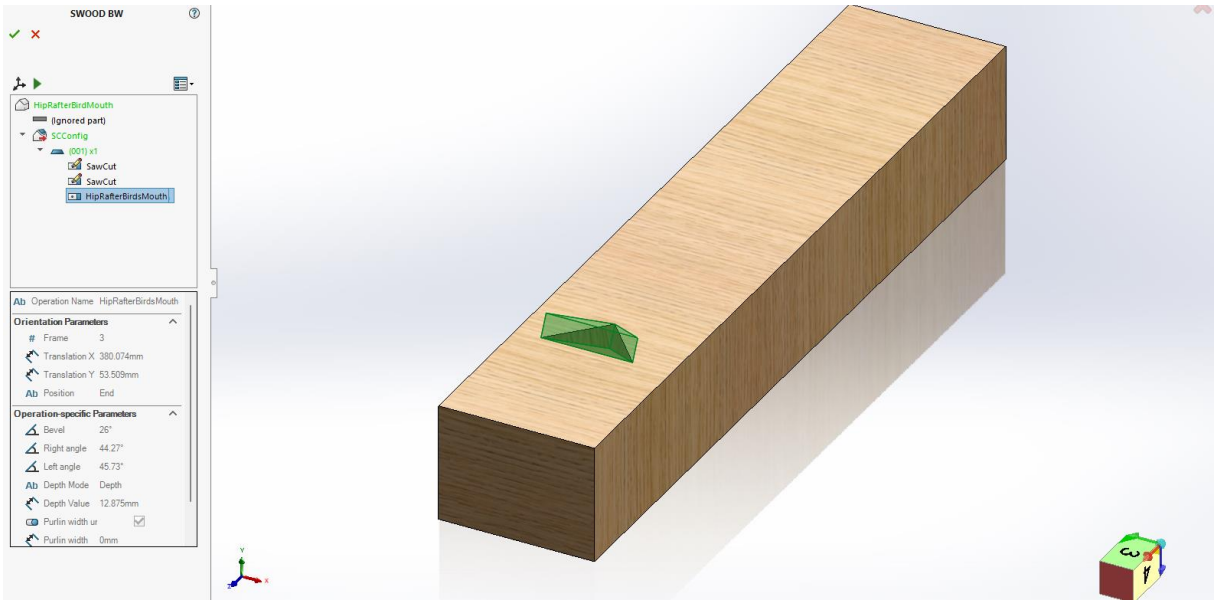


12. Slit

Specific case of 5 faces : two planes on each side, and at one the bottom, with two cylindric face on each side of the bottom plane

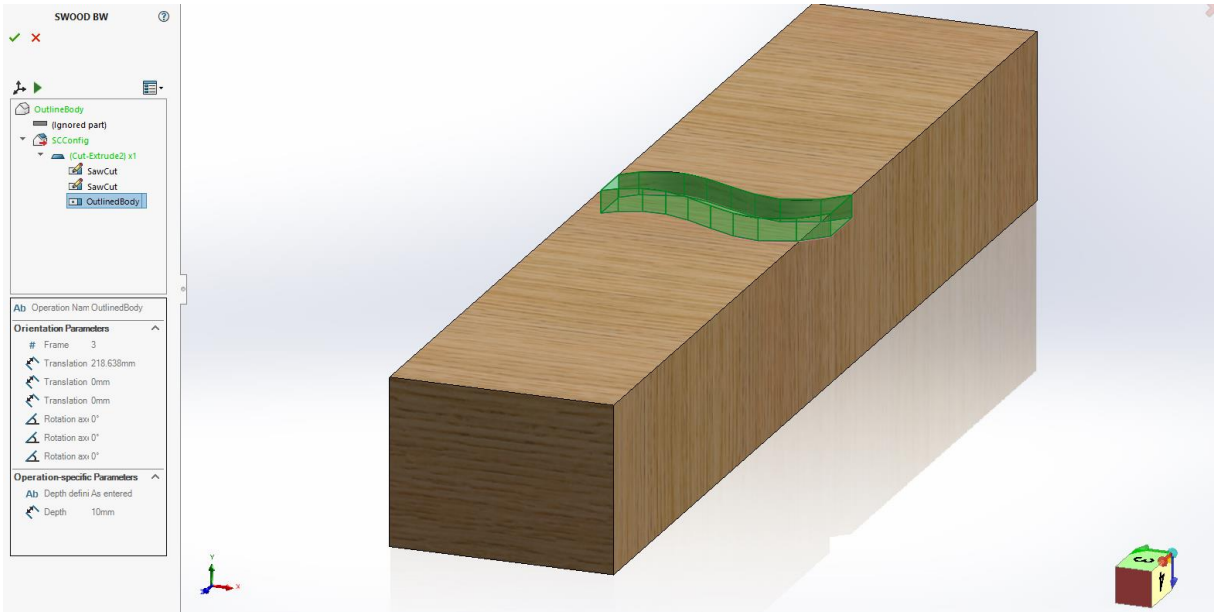


13. HipRafterBirdMouth



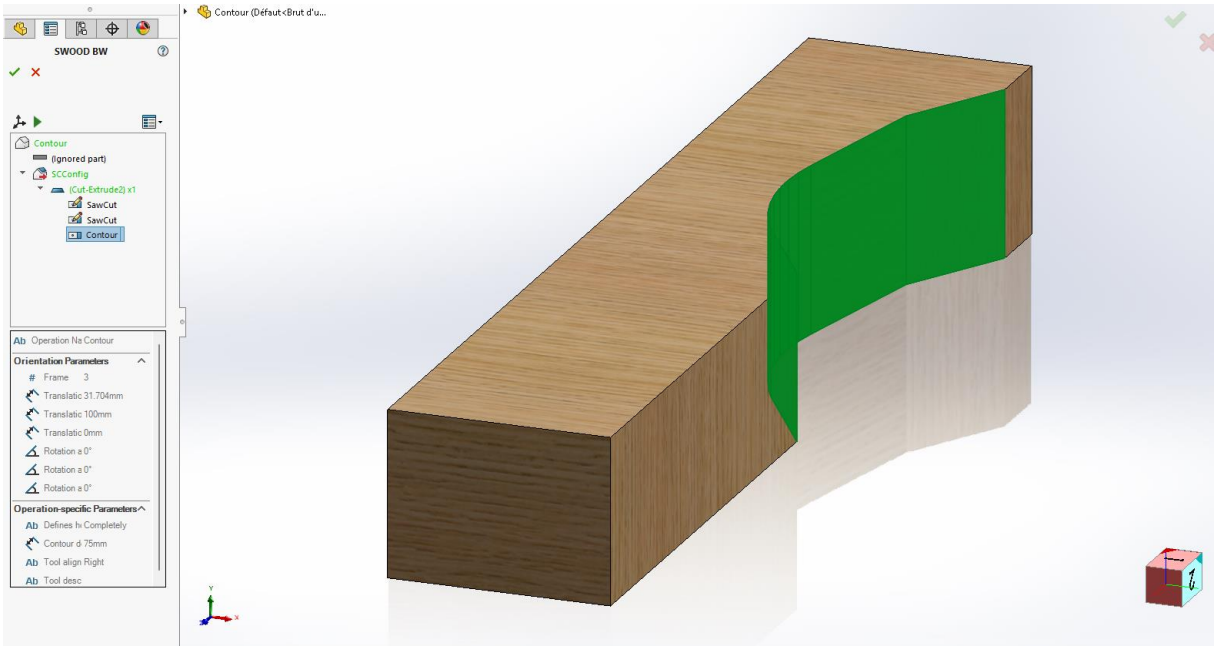
14. OutlinedBody

Inside contour.



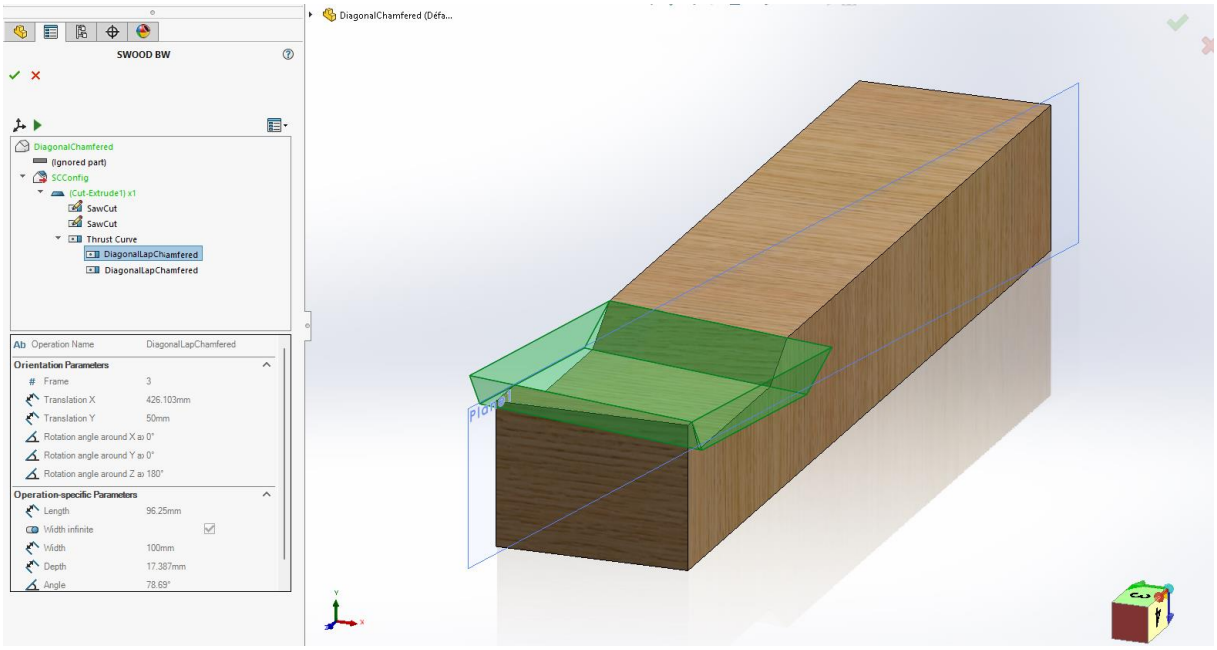
15. Contour

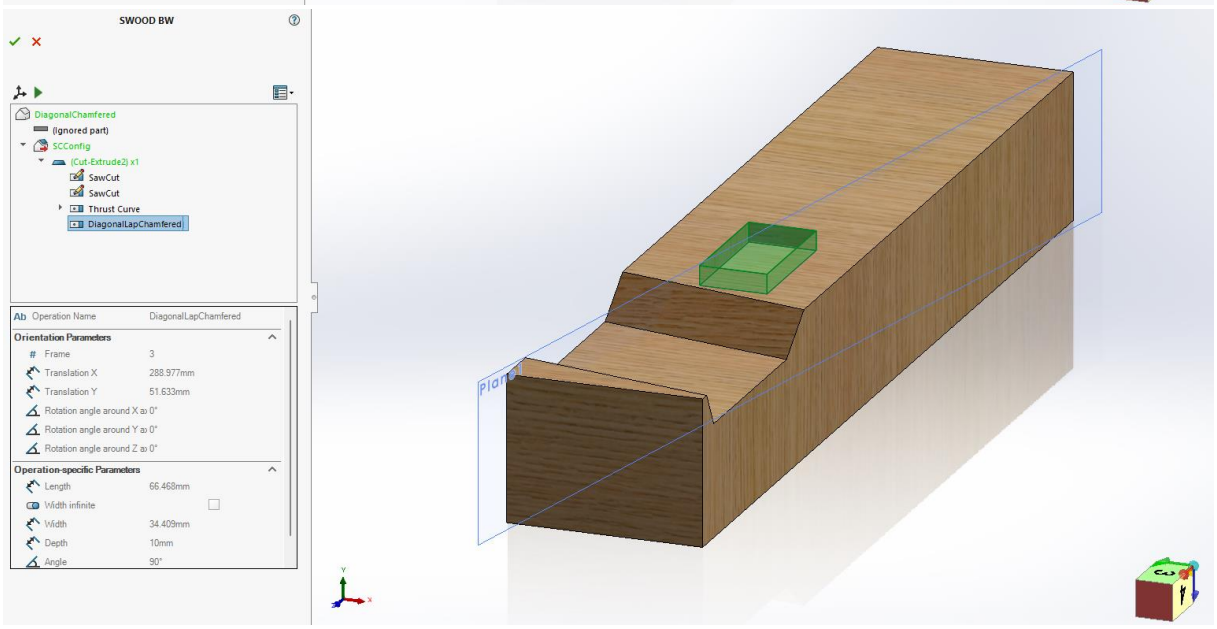
Outiside contour



16. *DiagonalLapChamfered*

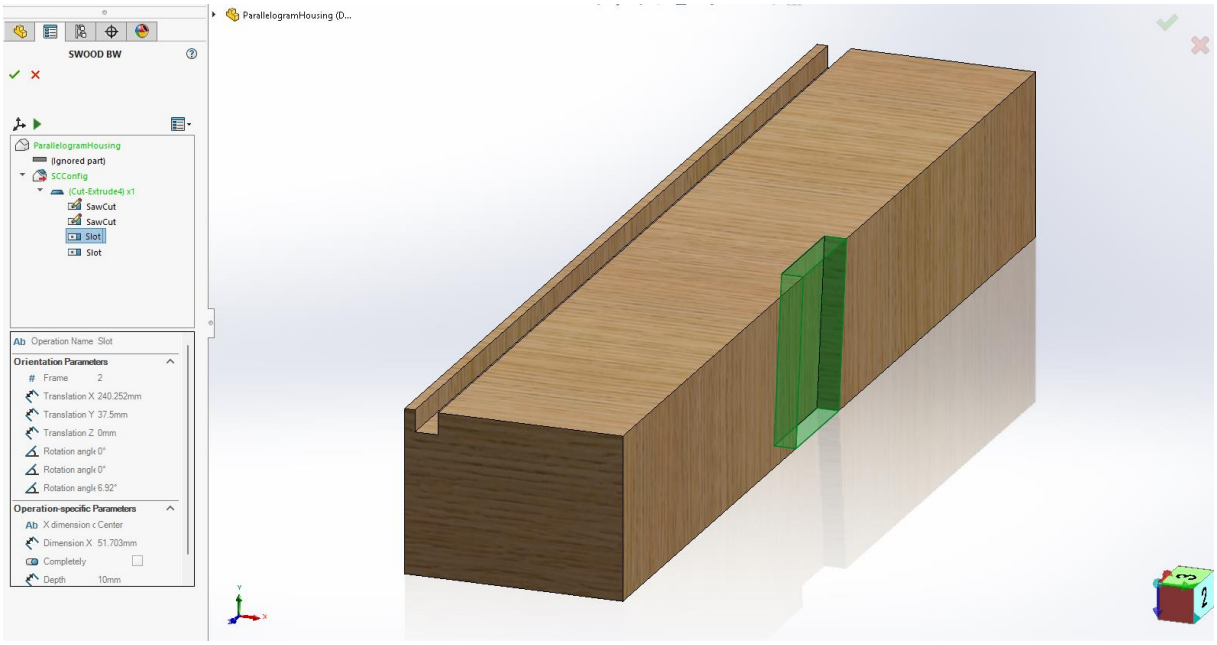
Used for thrusted curve and for cuboid pocket.





17. Slot

Three faces perpendicular to each other's.

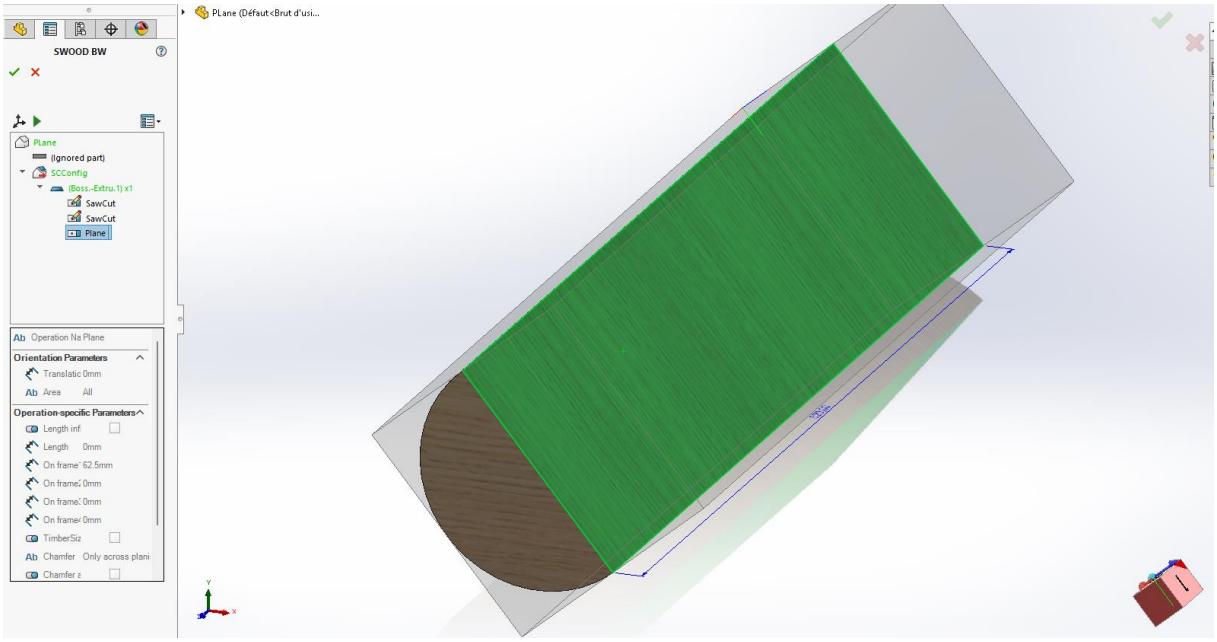


18. RoundedBlindSlot

Rounded rectangular shape with one side open

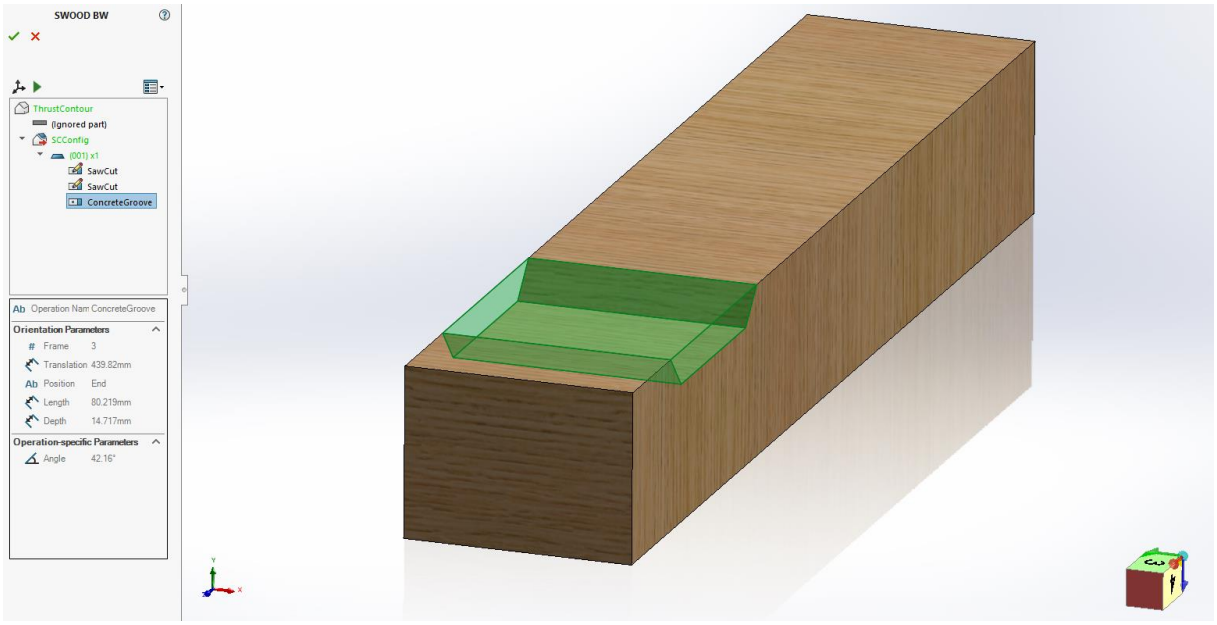
19. Planning

Horizontal cut for round beam



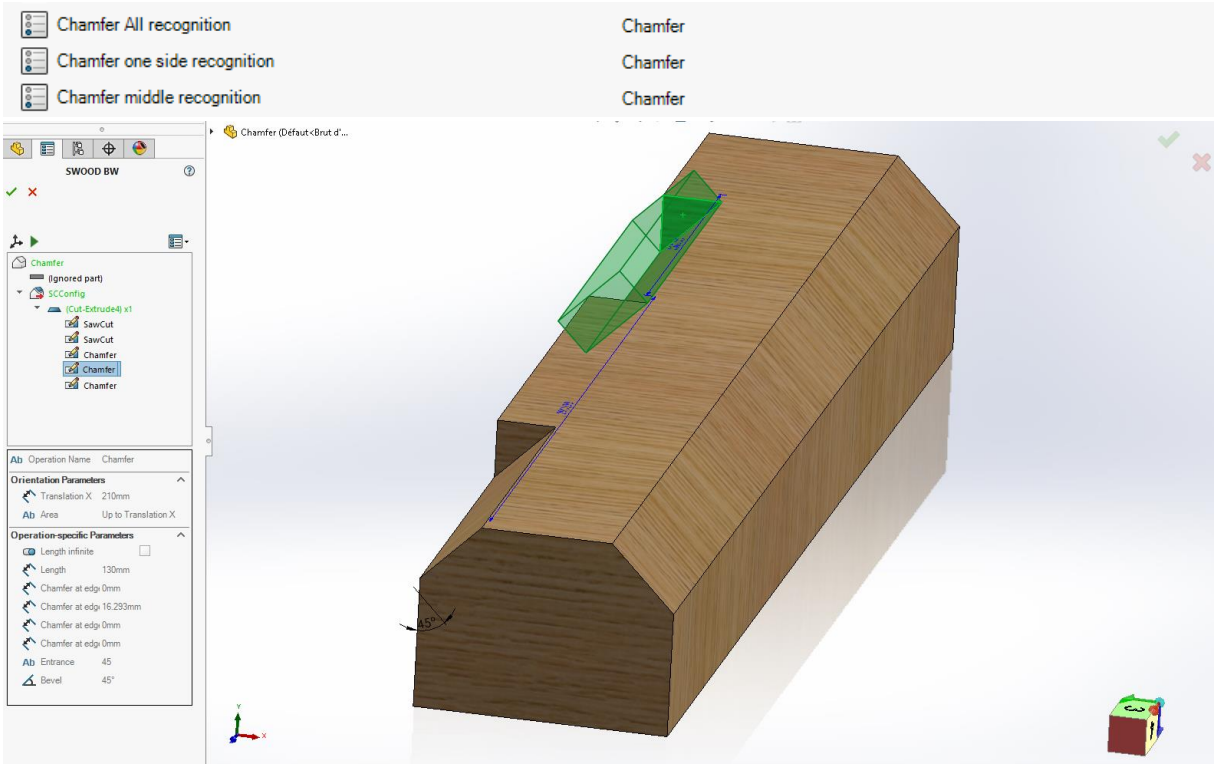
20. ConcreteGroove

Thrust curve with flat bottom faces.



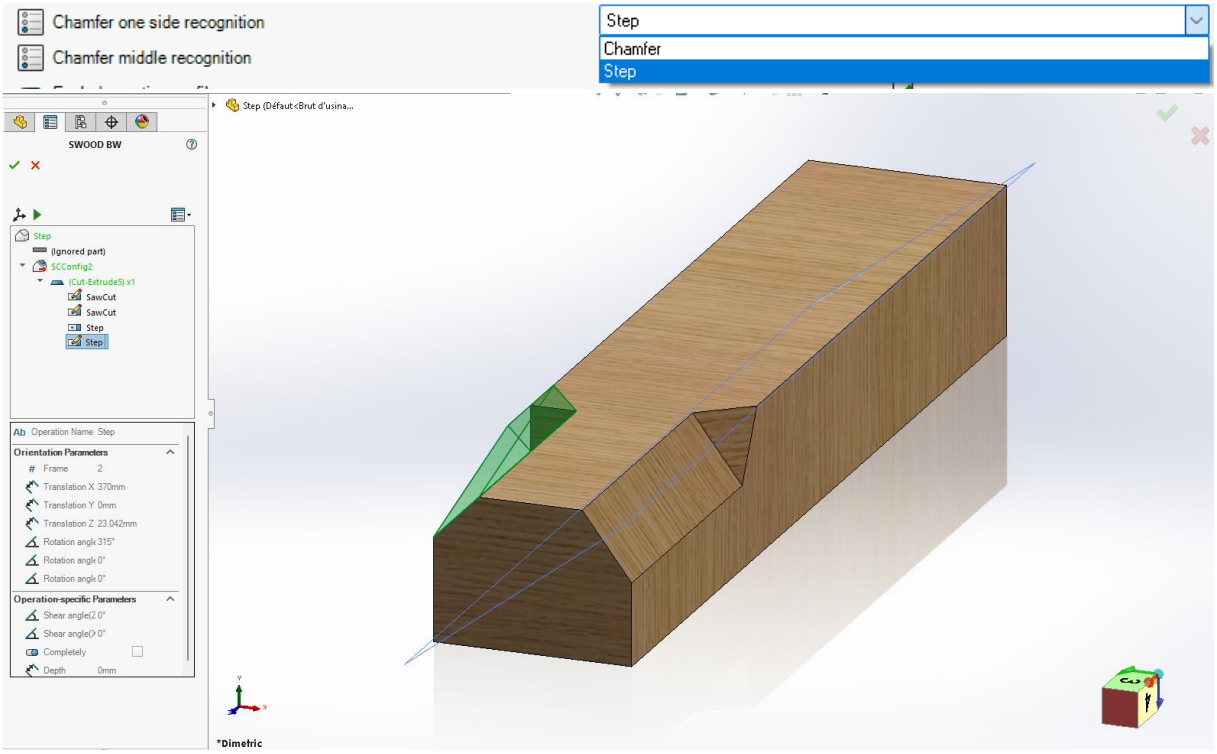
21. Chamfer

45° cut, can be outputted differently depending on the configuration.



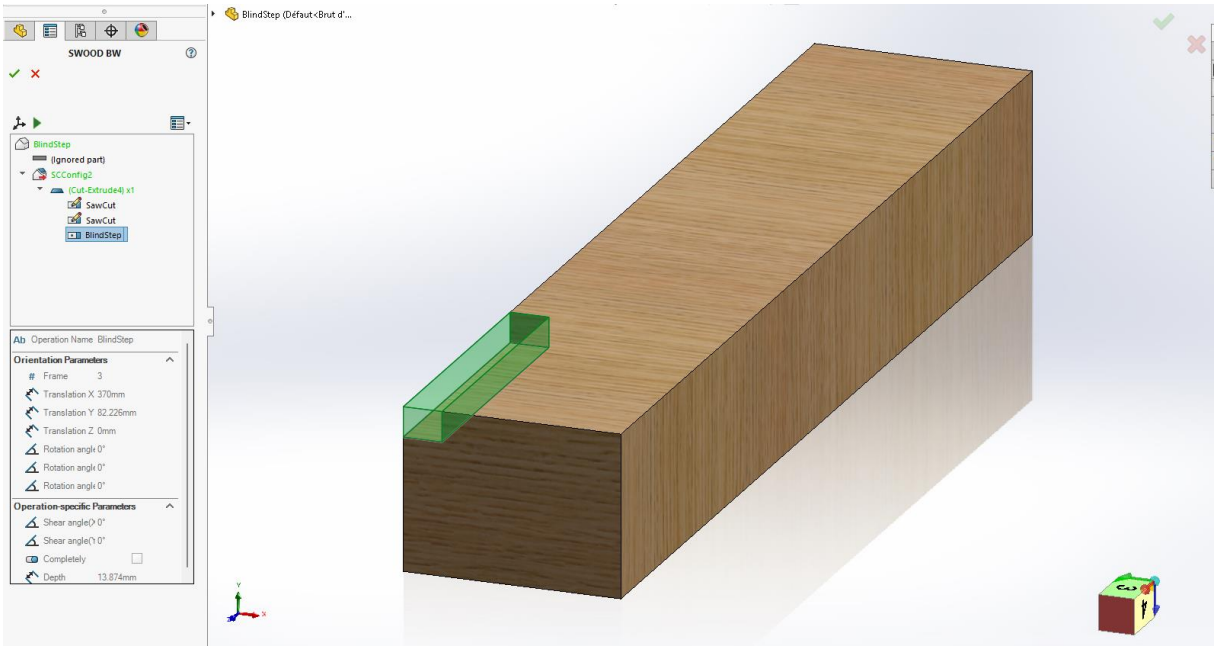
22. Step

Generic double cut that are not birds mouth or ridge lap.



23. BlindStep

Rectangular extrusion in a corner



24. BlindSlot

Rectangular extrusion at the side