



Parametric Woodbox Connector

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Summary

Create custom boxes without fiddling around or worrying about timber-joints and using the least amount of tools possible

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[wood](#)

I wanted to make my own custom-size storage-boxes without fiddling around or worrying about timber-joints and wanted to use the least amount of tools possible. This is my first draft of a parametric model to support any size of sheet-strength for my timber and create boxes in exact the size I need.

The model is parametric and you can change variables like timber-strength, screw-diameter, height, wall-thickness and height of the connector and the gap between the edges.

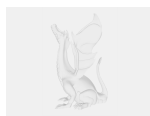
To calculate the exact sizes of your wood sheets based on the outer width and length, I've created a [Google-Sheet with a small set of formulars](#) where you can enter your metrics – you can just copy it to your own Google Drive and use it.

I printed it in original Prusament PETG and it is really sturdy – I was even able to stand on the first box I made which is clearly not recommended and definitely off-purpose. I also tried PLA and it also works fine but won't be as stress resistant as PETG.

For the bottom pieces I used support, which is easily removable afterwards (see 3mf files).

Be careful when you fasten the screws, so you won't crack/split it due to the layer-orientation.

Model files



box-connector-v39.f3d

☐ Parametric F360 file



box_connector_bottom.3mf

☐ Example /w 6.5mm timber strength



box_connector_top.3mf

☐ Example /w 6.5mm timber strength

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