



Hidden Screw, Print in Place Wall hook



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Summary

This hook was not only designed to look good but provide its own support without wasted material.

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The hidden screw wall mount mechanism is an elegant solution to a simple problem. I wanted to design a wall hook that could match most modern decor within the home. because I hate wasting support material the dovetail part supports the main body during printing to make a hassle free print and no wasted plastic :) also since they print together they form a precise and flush surface on the back when mounted.

recommendations:

(No supports needed)

For strength I would recommend printing at above 15% infill, even at 5% in PLA+ it was quite strong but safety factor is always good.

For layer thickness I would not recommend going larger than 0.03mm layer height the overhang at the end of the hook will suffer at larger layers.

A standard No. 6 wood screw should fit well in the countersink it can also accommodate slightly larger screws depending on type but I do recommend a tapered countersink style screw.

I included a small divot on the back of the hook to provide a spot to leverage when breaking the pieces free from each other.

Model files



hidden-screw-print-in-place-hook.stl

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