
Subject: Im building a box that will have three parts, does it have to be watertight?
Posted by [dloney](#) on Mon, 20 May 2013 20:57:36 GMT
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I think it should be a simple design: it has three parts:

The Bottom

The middle shelf (will be painted red)

The lid

The bottom will have a indented lip so that the lid (will use a clear material) can slide over the shelf and contact with the bottom part.

Thus, the design looks like this:

The middle shelf (will slide into the bottom part and be covered by the lid) It is also hollowed out inside to save on printing material. :

A simple lid (will be printed with a translucent material):

When I check for watertight meshes, I of course run into problems... due to the hollowed out design:

Any idea on what I should do to finish this project? Attached are the SketchUp files.

Thanks for reading / any advice.

File Attachments

-
- 1) [box_middle.skp](#), downloaded 24 times
 - 2) [box_bottom.skp](#), downloaded 26 times
 - 3) [box_top.skp](#), downloaded 29 times
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-

Subject: Re: Im building a box that will have three parts, does it have to be watertight?

Posted by [JACANT](#) on Mon, 20 May 2013 22:34:27 GMT

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Apart from that everything is OK.

Get a copy of <http://www.netfabb.com/basic.php>

It will check, repair, measure and scale. It will also show the volume.

On this model. Top - 141.31 cm³.

Middle - 319.33 cm³. One wall is showing up as 6mm thick.

Bottom - 181.09 cm³

Box complete - 645.73 cm³

File Attachments

1) [text3007-1-5.png](#), downloaded 104 times

Subject: Re: Im building a box that will have three parts, does it have to be watertight?

Posted by [JACANT](#) on Mon, 20 May 2013 22:36:27 GMT

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Gratis

File Attachments

1) [box complete.stl](#), downloaded 32 times

Subject: Re: Im building a box that will have three parts, does it have to be watertight?

Posted by [dloney](#) on Mon, 20 May 2013 22:48:58 GMT

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Thank you so much for your time! A real learning experience!
