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Subject: cabinet makers, please help

Posted by [pmwoodward](#) on Wed, 27 Nov 2002 16:20:56 GMT

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Hi, I am going to be building my first DIY kit, the 2 Pi Towers. does anyone have some sort of detailed plans? In particular, bracing info. I have been looking at the pictures in the forum, but, there is no real detail on how to assemble them.thanks, Paul

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Subject: Bracing and assembly

Posted by [Wayne Parham](#) on Wed, 27 Nov 2002 20:10:15 GMT

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Here's a collection of posts about "bracing." I think you'll find some good suggestions contained in the list. Do a search for "veneer" or "joints" or whatever else, 'cause some very good cabinetmakers have discussed these things in some detail.

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Subject: Re: Bracing and assembly

Posted by [bmar](#) on Wed, 27 Nov 2002 21:45:32 GMT

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This is not any kind of print, but you can see the bracing arangement I use to build cabinets. The braces should be snug but not enough to buldge the cabinet. all you want is a slight preload. I use MDF for braces on veneered cabinets over MDF. I make an L shape for the brace and tie the two braces together. This cabinet is a 2pi tower and has 2 L braced and 2 flat braced. none of the braces are inline or repetitions of another. Typically a hardwood is used for braces such as poplar, ash, oak, maple. (something cheap) but I like to use the L configuration which makes it possible to use MDF or Ply materials. It also stabelizes the cabinet internally so you dont need a backer veneer. There are some people that also use ply and make complete interal and or corner gussets with a series of holes drilled through the gusset. when time is money, we dont do that. all the bracing in this cabinet adds up to .15 cubic foot. so in a large cabinet its not a problem. smaller boxes need less bracing too. hope this helps, and remember to leave clearance for the driver's to fit around your braces. Bill

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Subject: Mortise and tenon

Posted by [jeff g](#) on Fri, 29 Nov 2002 00:27:05 GMT

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i was thinking of using a mortise and tenon technique with ash braces into 3/4 inch mdf frame pieces (2 front-back and 2 side-side). any advantages or disadvantages to this approach?also, why should the braces not be in line or repeated?thanks

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Subject: Re: Mortise and tenon

Posted by [bmar](#) on Fri, 29 Nov 2002 04:45:59 GMT

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mortise and tenon would be great. perhaps more time consuming than needed. the braces are mis aligned so there is less chance of standing waves inside the cabinet as well as the unbraced panel areas inbetween the braces are unequal. this will give less chance of any one resonant frequency to originate from multiple sources. some of the same reasons speakers are not made from equally dimensioned cabinets.

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Subject: Re: Mortise and tenon

Posted by [pmwoodward](#) on Mon, 09 Dec 2002 14:46:34 GMT

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Thank You! Bill, as they say 'a picture is worth a thousand words'. Your picture that you provided makes what I need to do MUCH clearer!thank, Paul

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