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Subject: Theater 4 Pi Questions  
Posted by [Frank Mena](#) on Thu, 05 Aug 2004 11:20:30 GMT  
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Hi Wayne! I have recently ordered a set of Theater 4 pi's in kit form and had a few questions. First could I get the cabinet plans from you? I don't know if they are included in kit or not. Also, in regards to internal bracing of the 4 Pi's, could you tell me of a good method and what is recommended for stuffing... fiberglas insulation?...what type & or thickness? And finally the last question should the cabinets be made as mirror images of each other? This will be my first try at making speaker cabinets so please bear with me for all of my questions. There is some pretty good stuff on the craftsmen forum but I just want to make sure!Thanks in advance!Frank

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Subject: Re: Theater 4 Pi Questions  
Posted by [Wayne Parham](#) on Thu, 05 Aug 2004 15:15:26 GMT  
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I'm sorry but I don't think we received your order. Please resubmit it. As for plans, you don't have to buy a kit to get them. Check your mail, I've sent the plans. There is also a printed copy included in the kits. Use R13 insulation, and line the bottom, back and one side. Install a 1 x 2 every 18" as a brace, and tie opposing panels together. Make them fit snugly so there is a little bit that way.

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Subject: Re: Theater 4 Pi Questions  
Posted by [Frank Mena](#) on Thu, 05 Aug 2004 16:04:14 GMT  
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I've re-done the order and it should be properly processed. Thanks for the plans and answers!!!Frank

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Subject: Bracing  
Posted by [elektratic](#) on Thu, 05 Aug 2004 17:33:38 GMT  
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Frank, My method is not Wayne-approved, but I'm a big fan of "window frame" bracing. It ties all four sides together and, if you are using a table saw, it's easy to get the dimensions right because the frames are the same size as the top and bottom. Just cut the braces at the same

time and with the same fence settings as the top and bottom. (If you're not going to be using a table saw, then I'd go with Wayne's method.)The bracing I used for my Pi Studio 2 Towers is illustrated at the attached link.

Pi 2 Construction Pix

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Subject: Re: Bracing

Posted by [Frank Mena](#) on Thu, 05 Aug 2004 18:11:53 GMT

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Thanks for the link!!! Great pic's!! I was wondering if using a window brace with 4 small holes or windows inside the brace (like a + within a square or "[+]" )was acceptable or not or if it would affect the volume of the cabinet and hence the sound. Your method seems a lot easier. Cheers & Thanks!Frank

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Subject: Re: Bracing

Posted by [GarMan](#) on Thu, 05 Aug 2004 19:19:30 GMT

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Frank,By my calculation, if you insert two window braces in the [+] formation you described, cut from 1" MDF, with the side and cross braces 1.5" wide, you'll only displace 0.2 cubic-feet. That's less than 3% of total volume and should not make any noticable difference.Gar.

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Subject: Re: Bracing

Posted by [elektrartig](#) on Fri, 06 Aug 2004 01:25:27 GMT

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Frank,I was actually thinking that, for a box as wide and deep as a Pi 4, the "4 window" solution would be ideal. Cut the panels, then cut four "windows" in each using either a jigsaw or you could cut four large round circles using a router and Jasper Jig or equivalent. (Adire suggests something similar to the latter for the internal bracing of their subs.)

Adire Sealed Tempest Design (w/ multiple round holes in braces)

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Subject: Re: Theater 4 Pi Questions

Posted by [James W. Johnson](#) on Fri, 06 Aug 2004 13:39:47 GMT

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Good luck with them Frank, be sure and post some pics of them after your finished.

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Subject: Re: Theater 4 Pi Questions

Posted by [Frank Mena](#) on Fri, 06 Aug 2004 13:57:22 GMT

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Thanks everyone for your responses. I'm truly looking forward to making these speakers. It might take me a little while but I'll try and have pictures posted of the building process. Thanks again! Frank Mena

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