
Subject: Let's try those 2Pi Tower pictures again.
Posted by [wasteh202](#) on Fri, 10 Jan 2003 12:16:13 GMT
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And heeere they are!!!My son helped me make the Yahoo pics available to the public (If it were not for him I would be lost on the computer).

2Pi Towers Speakers

Subject: pic 230
Posted by [Sam P.](#) on Fri, 10 Jan 2003 12:23:22 GMT
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Looks like you need a piece of wire mesh across the port openings:) At least the drivers look to be up out of "claw range". VERY NICE JOB. Sam

Subject: Re: Let's try those 2Pi Tower pictures again.
Posted by [Bugman](#) on Fri, 10 Jan 2003 12:26:52 GMT
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There are a total of 20 pics. Only 16 come up when you click on the link, but you can view all 20, I think the "slideshow" is the best way to view them.

Subject: Re: pic 230
Posted by [wasteh202](#) on Fri, 10 Jan 2003 12:29:02 GMT
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Sam you are correct, the port opening is large enough for the cat to crawl in, the boy does not let the cats in his room so it should not be a problem, thanks.

Subject: Re: Let's try those 2Pi Tower pictures again.

Posted by [wasteh202](#) on Fri, 10 Jan 2003 12:30:42 GMT

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Thanks for pointing that that out, I agree that they view pretty good that way.

Subject: Nice job of bracing

Posted by [JLapaire](#) on Fri, 10 Jan 2003 14:46:24 GMT

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Definitely pays to brace the panels well. Your boxes turned out great! The Studio 2s are my wife's favorite speakers, which means something. Congrats on a job well done. I wonder if anyone has tried the Towers with/without the coil? John

Subject: Thanks

Posted by [wasteh202](#) on Fri, 10 Jan 2003 16:12:30 GMT

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Yes , the towers are braced well. Kind of built like a tank actually. But, like Wayne says you can't bract too much. These things weigh about 52lbs each. If I make them from MDF I would not be able to move them very easy. I used 3/4 inch maple plywood. The parts Wayne sent me have the coil (0.5mH) included and already in line, so I am using it but I don't have anything to compare it to since this is all I know.

Subject: Super!

Posted by [Wayne Parham](#) on Fri, 10 Jan 2003 16:30:09 GMT

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Wow, those look great! I love the black front contrasted with the wood grain. Superb!

Subject: Re: Super!

Posted by [Erik Johansson](#) on Fri, 10 Jan 2003 16:43:14 GMT

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Wayne, about that very nice bracing. Is there any risk that the volume of the cabinet is changed too much with that amount of bracing? I've had the 2Pi Tower plans for a while now and definately need a set of low cost, high quality speakers. Those braces along the length of the cabinet would definately make building it a lot easier too (I use MDF and veneer it when built).I'll start building them as soon as I've listened to my friend's 1Pi speakers we built for him this summer with some proper equipment, namely my Edison 22 (2x14W 6V6GT PP) tube amp and his Denon DCD-1450AR (I've got a DCD-1650AR myself). When I last listened to them connected to his old "el cheapo" Sanyo all-integrated budget stereo I though the Alpha-8 was doing a great job but the KSN-1038 definately sounded "sharp". Especially on electric guitar solos (we listen to rock music a lot).One of the songs we listened to was one of my true favourites, Pink Floyd - Comfortably Numb. Listen to that solo!!! It's magic, pure magic. Through the 1Pi speakers the highs were noticably sharp but I have some belief that a warm sounding tube amp will be the perfect match for them and cure the problem. I will know by the end of next week once he gets his new CDP./Erik

Subject: Bracing and cabinent volume

Posted by [wasteh202](#) on Fri, 10 Jan 2003 17:05:55 GMT

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I wondered about that myself but I planed to compendate by enlarging the boxes a bit. Unfortunately, I overcompensated a bit too much and even with all the bracing I figure I'm still about 1000 cubic inches bigger than it the box should be. Ports are 4 3/4" diameter, 1/8 larger than design. After some listening I get a feeling that the bass is not quite right. A tad boomy in my opinion but I am not blaming anybody but myself, I'm sure Wayne's design is right on. Good thing about it is that these speakers are my sons and he can't get enough bass. He actually turns up the bass on the tone control and then kicks the loudness button in too! I can't listen like that but as long as he is happy. I did some listening this morning with some Vivaldi Clasical music and I gotta say that it sounded pretty darn good!More listening and some A/B testing to come.

Subject: Internal displacement

Posted by [Wayne Parham](#) on Fri, 10 Jan 2003 19:06:11 GMT

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Sure, you could displace so much volume that bracing material made a difference in cabinet tuning. But it would take a lot, to be honest. This particular cabinet is about 10,000 cubic inches so it takes a lot of displacement to be significant. But certainly if you use more bracing, you could always increase cabinet size to accomodate.

Subject: Re: Internal displacement
Posted by [Erik Johansson](#) on Fri, 10 Jan 2003 19:15:17 GMT
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So by that comment I suppose that bracing them like the speakers in these pictures would be OK without changing cabinet size? Also, about the KSN-1038 sounding "sharp" on electric guitar solos and pretty much overall (just that it was very clear on the solo I mentioned)? Think it will be OK

with my tube amp. As I said, I have great hopes that the problem will be at least a lot less noticable./Erik

Subject: Re: Internal displacement
Posted by [Wayne Parham](#) on Fri, 10 Jan 2003 19:30:12 GMT
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When I calculated box volume, I assumed that three pairs of cross braces would be used and that the wood stock would be 1 x 2. I don't recall the exact displacement, but it seems like it was something like 300 cubic inches. So I don't know how much room the braces in Rodney's speakers are, but I expect they aren't much more than a hundred or maybe two hundred cubic inches more. That's not a lot, and there's no way you could see the difference in tuning from this on a response graph. About the tweeters, to be honest, I really like the sound of the KSN-1038's. I wouldn't want to try to use them in systems that needed to generate concert level sound, but for maximum output of 110dB-115dB, I really think they're great, particularly for the money.

Subject: Re: Internal displacement
Posted by [wasteh202](#) on Fri, 10 Jan 2003 19:37:31 GMT
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Wayne, if I may butt in here. If you look at the pictures closely you will notice that all the corners where the plywood meets (both vertical and horizontal) have 2x2 bracing. I used the 2x2's to screw and glue the plywood to. I also threw in a couple in back to give the front back braces something to affix to so I could put the back in place when all finished. I actually calculate the total 2x2 + 1x2 volume to be almost 500 cubic inches so it does add up in my box. I still don't know that it will make a significant difference but I would try to account for it if I were you Eric, just don't get

carried away like I did.

Subject: KSN-1038

Posted by [Erik Johansson](#) on Fri, 10 Jan 2003 19:42:54 GMT

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for the sharp treble. As I said, I have great hope that my tube amp will solve this once and for all. If not, there is always the Theater Fours... :)/Erik

Subject: Re: Internal displacement

Posted by [Erik Johansson](#) on Fri, 10 Jan 2003 19:51:36 GMT

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Maybe my math is totally off, but I get around 1000 cubic inches just for the 2x2 stock around the edges. I did a rough calculation using 45 (46-1) inches for the stock from top to bottom, 11 (16-1-2-2) inches for side to side and 8 (13-1-2-2) inches for the front to back pieces. That adds up to a total length of 256 inches, 256x4 (2x2 stock) is more than 1000 cubic inches. Then we have the cross braces... :)/Erik

Subject: Re: Internal displacement

Posted by [wasteh202](#) on Fri, 10 Jan 2003 21:52:44 GMT

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Eric, I think we are both off in our calculations. The total of 256' of 2x2 is pretty darn close. Multiply the 256 by 2.25 (as 2x2 are really only 1 1/2" x 1 1/2". So multiply 1.5x1.5 and you get 2.25 cubic inches per line feet) and there you have it. A total of 576 cubic inches for the 2x2 bracing. Then add a bit more for the 1x2 (what maybe onther 40 cubic inches). Figure a little over 600 cubic inches for the whole thing. I hope my way of calculating is correct. This way of building the boxes makes it eaiser on one hand and maybe a bit more trouble on another. I will say this... that box in not coming apart!

Subject: Bass'n treble

Posted by [mollecon](#) on Fri, 10 Jan 2003 23:11:05 GMT

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Hi! Just wanted to mention that since the Pi2s are stronger in the bass than the Pi1s, this may well have a positive influence on how the treble is perceived - it's a known psycho-acoustical phenomenon that the bass & treble can influence each other this way.

Subject: Looks great and beefy too!

Posted by [ToFo](#) on Sat, 11 Jan 2003 03:55:34 GMT

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Good stuff, I know you will enjoy them.Thomas

Subject: Dimensions: Narrower front baffle

Posted by [Oscar](#) on Tue, 14 Jan 2003 04:24:37 GMT

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I noticed that you have changed the dimensions. What are your dimensions and how does this affect the overall sound of the speaker. I'm in the process of starting my tower project after a long delay of sourcing material and the narrower front baffle is very appealing to me. Wayne has already mentioned that the difference is very small, I however would like to know exactly what the difference is before I embark on this compromise.CheersOscar

Subject: Re: Dimensions: Narrower front baffle

Posted by [wasteh202](#) on Tue, 14 Jan 2003 12:23:49 GMT

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Oscar, I would like to be able to help you very much here but I don't know that I can help you much (as far as a comparison). This pair of 2Pi Towers is the only Pi design that I have ever heard. I think as long as you keep the overall cubic inch s box size to the design that you will not deviate from the desing tuning. My box and port happen to be a bit bigger that the design size. Wayne says that changing the dimensions is not a problem, just keep the size the same. I change the width and depth sizes to better accomadate my sons bedroom.I can tell you that they sound great. I was listening to some Magnepan MMG (another great value in speakers, just not very

sensitive or dynamic) speakers about a year ago. When my wife and daughter brought home two little kittens I packed and put away the MMG's (great cat scratching posts). I replaced them with some small monitors on the bookshelf (I refer to this day as "the day the music died). Well, since building the 2Pi Towers for my son I cannot enjoy listening without the Towers and find myself sneaking in his room while he is at school to listen to my music.

Subject: Re: Dimensions: Narrower front baffle
Posted by [ozzi](#) on Wed, 15 Jan 2003 08:47:33 GMT
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Could you please email me your sizes, I would like to compare. Thanks for the info, it helped a lot in making the decision. Oscar
