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Subject: Building a pair of 2 Pi in solid pine?

Posted by [Erik Johansson](#) on Sun, 14 Jul 2002 10:13:59 GMT

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Anyone tried this? I really love the looks of the finished pine and it's also much cheaper than MDF + veneer. I can get it in 18mm and 25mm thick boards made from ~5cm wide pieces of pine./Erik

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Subject: Re: Building a pair of 2 Pi in solid pine?

Posted by [Wayne Parham](#) on Sun, 14 Jul 2002 16:43:13 GMT

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Build 'em in MDF and veneer - They'll sound better.

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Subject: Re: Building a pair of 2 Pi in solid pine?

Posted by [Erik Johansson](#) on Sun, 14 Jul 2002 17:42:52 GMT

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Will do so! The prices are almost the same for 16mm and 19mm MDF so I think I'll be going with 19mm. Also about the ports. You said my 50mm ID ports would be OK for the 2 Pi but I would still like to know, if I DO want to fine tune them, EXACTLY how long should I make them?/Erik

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Subject: Tolerance

Posted by [Wayne Parham](#) on Sun, 14 Jul 2002 19:38:56 GMT

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The difference between what you've got and what was recommended was only 1.5mm, or about 0.06". Accuracy to sixty thousands of an inch here is completely fine.

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Subject: Re: Building a pair of 2 Pi in solid pine?

Posted by [vladimir4](#) on Mon, 15 Jul 2002 05:34:05 GMT

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also dimensions to tower-like look: internal dimensions respects the ratio 1:1.402:1.202 (which is known as very good sounding). I multiplied 1.202 by factor of 3 (allowed) so my box is internally 204 x 292 x 734 mm (43.5 liter, minus Alpha-10 1L and braces 2L). The tweeter is golden-placed (asymmetrically, 0.618 from the top, 1.000 from one side and 1.618 from another side - this improves imaging). Alpha-10 is also placed at the 1/3 of internal height. My port is 50 mm internally and lengths from 40 mm to 100 mm works fine. Varying the length of the port has more impact on the midrange clarity than on the bass extension (!) The first one is ready and playing (not glued, no braces and no stuffing material at the moment). Sound? Very promising, but I prefer to spend some time to critical listening before reviewing it. Photos will be available soon. Vladimir.

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Subject: Re: Tolerance

Posted by [Erik Johansson](#) on Mon, 15 Jul 2002 15:04:14 GMT

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Here is a picture of the ports I will be using. As you can see its outer edge will extend about 2.5mm from the baffle (if I don't recess it which I don't have the tools to do) due to the flange with the screw holes. From where do I measure the length of the port? From where it starts (2.5mm out from the front baffle) or from the outside of the baffle?/Erik

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Subject: Re: Tolerance

Posted by [Wayne Parham](#) on Mon, 15 Jul 2002 15:56:07 GMT

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Port length is total path length, from end to end. The sound doesn't care whether part of the port is formed by the baffle - all that matters is total length.

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Subject: Re: Tolerance

Posted by [Erik Johansson](#) on Mon, 15 Jul 2002 16:15:38 GMT

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Ok I got it. I didn't know if I should measure the entire inside of the tube or how long into the cabinet. But now I know it's the internal length of the tube. Thanks, will get some pictures of the

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project (We'll be building 2 pairs of 2 Pi)./Erik

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Subject: Re: Tolerance

Posted by [BillEpstein](#) on Tue, 16 Jul 2002 00:36:00 GMT

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Why don't you put the flange on the inside of the box so it, and it's screws, don't show. Add the thickness of the box to the port, of course. Just paint the inside edge of the hole black and put a little sealant under the flange.

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