Subject: boxes for speakers
Posted by randle on Mon, 21 May 2007 10:35:27 GMT
View Forum Message <> Reply to Message

I'm new to this whole speaker thing but I wanted to put some 18 in my trunk, I wanted to buy the speakers but I also wanted to buy a box for them seperately. Does anyone know where I can get these boxes from exactly?

Subject: Re: boxes for speakers
Posted by Wayne Parham on Mon, 21 May 2007 16:03:11 GMT
View Forum Message <> Reply to Message

I would suggest using a program like BoxPlot or WinISD to model some cabinets. You'll need to know the T/S specs of the woofer(s) you're considering, and then you can plot the response of them in various box sizes and configurations. It will let you try a few "what-if" scenarios, and find a speaker that suits your needs.

Subject: Re: boxes for speakers
Posted by Barry S on Mon, 21 May 2007 17:18:17 GMT
View Forum Message <> Reply to Message

Hi Wayne,Thanks for the reply! I'm planning to use your 2 Pi kits. It'll be fun to try them as an open baffle speaker first and then get some boxes put together. I won't be changing your plans for building the 2 Pi boxes. You have been doing this sort of thing for a long time and it really showed in the Abraxas room at the audio festival. Experimenting may be something to think about in the future but for now it'll be fine following somebody else's proven recipe for speaker building.Guess the real question is what is the best material to make the 2 Pi towers? Your speaker building plans mention 5/8" particle board and 3/4" mdf material. Is the heavier, thicker material more appropriate for speakers or does the particle board sound better?Many thanks!

Subject: Replied to the wrong thread. Sorry. NT
Posted by Barry S on Mon, 21 May 2007 17:20:02 GMT
View Forum Message <> Reply to Message

nt

Subject: Re: boxes for speakers
Posted by Wayne Parham on Sun, 27 May 2007 19:02:39 GMT
View Forum Message <> Reply to Message

My favorite two cabinet materials are baltic birch and MDF. Each has its strengths and weaknesses.Acoustically, MDF is great. It's made of dust from many fibers bound with glue, so it's inherently non-resonant. But it's not very durable as a piece of furniture. Even if you never get it wet, in humid environments the wood will swell enough that butt joints will show through veneer - you'll see the seams. I think MDF is better acoustically than the best plywood, but it's heavier and less durable.Baltic birch is much stronger and resistant to humidity. So if your speakers will be moved much or might be in humid environments, you might want to think about that. It is important to use a high quality plywood, which is why I tend to stick with baltic birch. It has more plys that are of higher quality and glued together better, having less voids within the plys. That's the main thing here - you don't want voids. Actually, it isn't the void that concerns me so much as the debris that can be contained in the void. That will cause buzzing. Separated plys can buzz too. Those are the things we are trying to avoid.If the cabinet you are building is labor intensive or has a fine wood finish, then it would probably be a costly disappointment if a buzz developed and you had to scrap the box. Buzzes can develop years later, when plys separate or debris breaks loose inside a void. Sometimes, if a buzz develops, a small hole can be drilled in the cabinet interior into the section of the wood where the void or ply separation is. You can sometimes inject glue into the hole and repair the damage, fill the void or reattach the plys. But it's probably better to reduce the risk of failure, starting with a high-quality wood to begin with.

Subject: Re: boxes for speakers
Posted by Barry S on Tue, 29 May 2007 16:46:10 GMT
View Forum Message <> Reply to Message

Thanks Wayne. This really helps make some decisions.It looks like MDF would be the right choice for some mock up open baffles and the baltic birch for big boxes (where longevity and weight will be issues).Again, thanks for the help!

Subject: Re: boxes for speakers
Posted by randle on Thu, 31 May 2007 09:34:03 GMT
View Forum Message <> Reply to Message

SO I would actually have to make the box to go around the speakers. I Couldn't just put together a box with four walls and call it a day. There is actually a scientific way to building a box for speakers?

Subject: Re: boxes for speakers
Posted by Wayne Parham on Fri, 01 Jun 2007 05:08:08 GMT
View Forum Message <> Reply to Message

Yes, there is a scientific way to build speakers. Google WinISD and BoxPlot.