
Subject: Yet more 4 Pi questions

Posted by [James W. Johnson](#) on Mon, 30 Jul 2001 14:04:45 GMT

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Wayne , yesterday I sat down and started figuring out the flats cut I need to make and began wondering if 3/4" material is going to be enough. I went ahead and wrote out the flats cuts for 1" MDF and 1.5" MDF or Baltic Birch as well. Since am spending \$1100 on the parts I don't want to go the cheap route with these cabinets. This is the most I have ever spent on a speaker and they need to keep me happy for a very long time. What should I do? Also I figured the Vb to be 3.65cuft before subtracting the drivers and port, so the total must be around 3.4cuft add stuffing and it should bring it to around 3.5cuft with a 6"x3.5"x10" the tuning is right around 34Hz....am I going to have a problem with the driver unloading?

Subject: more on unloading

Posted by [James W. Johnson](#) on Mon, 30 Jul 2001 14:10:31 GMT

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With my subwoofer experience I know that when a driver's mechanical limits are reached things can get ugly, the 2226H only has 7mm of travel each way while my subwoofer drivers have 16mm of travel each way and with enough power I have no trouble bottoming them out. Is there some sort of driver protection built into the four Pis crossover?

Subject: Yet more 4 Pi answers

Posted by [Wayne Parham](#) on Mon, 30 Jul 2001 14:33:36 GMT

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There's nothing wrong with making the panels thicker except it makes the cabinet heavier. It's really more important that they be well braced. As long as you brace them well, you don't need the extra thickness but it won't hurt anything either. As for woofer loading and cabinet size, the four Pi provides good cone control with smooth rolloff down to about 30Hz. It won't really be completely unloaded until fl, which is under 20Hz. The response curve is slightly overdamped, so rolloff is smooth and gradual, and there's useful output down to about 30Hz.