

---

Subject: Re: Three 4Pi's in Basic Black for Home Theater Build Thread

Posted by [Wayne Parham](#) on Thu, 05 Aug 2010 16:23:38 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

BigmouthinDC wrote on Thu, 05 August 2010 09:26 Wayne is this what the Doctor ordered for bracing?

Yes, that's good. That's exactly how I do the braces.

BigmouthinDC wrote on Thu, 05 August 2010 09:26 I found some 3/4 x 1 1/2 and 3/4 x 2 Oak in my scrap pile. I positioned it about as low as I can go to create the "shelf" for the recommended insulation installation separating the woofer from the port.

That's perfect.

krikor wrote on Thu, 05 August 2010 10:33 Something I've been wondering about with regards to the 4Pi port that is evident in this photo... since the port is so close to the cabinet side wall, could you just build a three-sided port and use the cab sidewall as the fourth side?

You could, and that's actually how I modeled the cabinet when I first started assessing the impact of internal standing waves. But I didn't like the looks of the cabinet with the port that close to the edge, so I shifted it inwards about an inch by adding the extra material.

As you guys have discussed, the cabinet dimensions can't be reduced, and really, you don't have a lot of choices with port position either. But there is some wiggle room, I suppose. You could put it right out at the edge. Still, with the extra cost of a couple pieces of wood, I think you'll be happier with the port where it is drawn in the plans. It looks really funny to me when it's placed higher than the tweeter and shifted outward. Where it is now, it's even with the tweeter.