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Subject: 4 Pi build questions

Posted by [brookhart995](#) on Fri, 06 May 2016 14:34:27 GMT

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I am getting my materials ready to start this build and I have a few questions.

I am using the Eminence PSD2002-S 8ohm horn driver and the JBL 2226H woofer. I was able to get both at reasonable prices (used). The horn flare is specified as the H290c, is there a difference between this flare and the H290s that P.E. sells? In the crossover schematic it shows a 100watt 8ohm resister that is in line with the positive terminal of the woofer, is this the type of resister I need to use?

<http://www.mouser.com/ProductDetail/ARCOL-Ohmite/HS100-8R-F/?qs=sGAEpiMZZMtlubZbdhlBIEidPY%252bx%2fLaaBDWQceqDgFs%3d>

As for the speaker box design I was thinking of something like this?

[http://www.critesspeakers.com/\\_Media/csiiready\\_med.jpeg](http://www.critesspeakers.com/_Media/csiiready_med.jpeg)

The main design detail I like is the recessed baffle that would allow a flush grill. Would doing this compromise the sound quality as it would need to be designed this way when the crossover is designed?

Thanks for helping me out.

Ryan

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Subject: Re: 4 Pi build questions

Posted by [Wayne Parham](#) on Fri, 06 May 2016 15:58:17 GMT

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I love recessed grilles. See below how I had mine done. I borrowed that look from a builder here named Garland. He built a pair of speakers like this around 2000 or 2001, and I was smitten. So the next cabinet I had made borrowed the same look:

The grille isn't shown in the photo above, but it's dark brown and fits in the recess.

As for the Eminence H290, it's a great little radial horn and we used it for many years. But the H290C is a significant improvement. It's worth the extra cost. That's why I had an injection mold made - That's how much it was worth it to me.

The crossover is slightly different depending on which horn/waveguide you use. The only one we provide now is the H290C OSEC Waveguide.

For more information, see the thread below:  
H290C Horn/Waveguide

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