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Subject: Re: 3Pi and 4Pi Plans Request

Posted by [Wayne Parham](#) on Wed, 23 Sep 2020 19:51:16 GMT

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I think if you peruse the Pi Speakers FAQ and do searches here in the forum, you'll probably find all the answers to any questions you might have.

In particular, you might want to read the H290C Horn/Waveguide thread. It discusses the benefits of that design quite a lot. And look at what is offered by shorting rings in the drivers. Also, look for things about spacing of the vertical nulls, things like crossover frequency and slope and spacing between drivers, which is largely dependent on their size. And finally, look at baffle step and how the flanking sub configuration is used to compensate for that while at the same time reducing SBIR from nearest boundaries.

For me, the best loudspeaker designs use high-quality components and also optimize their interactions with one another. It's a whole systems approach.

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