
Subject: Re: Subhornor bass horns only

Posted by [Wayne Parham](#) on Mon, 26 Sep 2005 17:34:35 GMT

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The truth is, when a segment expands with a straight-sided expansion on one side and no expansion on the other, it is really a parabolic expansion, not conical. Conical expansion requires linear expansion in both axis. Exponential or hyperbolic requires even more. But by using several sections, you can approximate the flare you want, even with straight side walls. Also, there will be a notch in output at the frequency where the side wall distance is $1/4$ wavelength, so consider this when choosing a crossover frequency. If it's a basshorn, it probably won't be an issue, and may help increase rolloff above the passband.
