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Subject: Re: High output basshorn

Posted by [Bill Wassilak](#) on Wed, 03 Nov 2004 15:38:55 GMT

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Most 15's I've looked at usually want a throat area around 80 sq in, so your already starting at a 2:1 compression ratio. According to Tom Danley when you start getting compression ratio's above 3:1 you take a big chance on ripping cones. Also with such a large throat area your horns going to turn out massive anyway trying to get 1/4 wave length at your lowest freq. Example: When I modeled my EV 15's with 80 sq in throat and a 5.5' path length for a 50 Hz cutoff, the smallest box I could cram it in was still about 36-42"H x 36"D x 22.5"W so if your going lower in freq your box dimensions are still going to be larger yet. Like Bill Fitzmaurice says, now days it's easier to use a smaller driver with more horn length to achive a lower cutoff and it keeps the box size reasonable. And you can stack more of them to overcome the smaller mouth size limitations or corner load them like you said. What would be cool is if you come up with something like the Bdeap's from Servodrive. That cabinet has 2-12's in it but it relies on boundry reinforcement to get it down to 30 Hz, free standing they say it's good to about 45 Hz with out any sort of boundry. And I think it's mainly a conical shape horn on the inside that starts the initial horn flare. HTH Bill W.

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