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Subject: Slot loaded woofers

Posted by [Bellini](#) on Fri, 16 Oct 2009 06:56:44 GMT

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I am working on a three way design to be used with subs for band PA purposes. I want the box to be as compact as possible. Each cabinet will contain 2x Eminence Kappalite 3015 woofers, 2x Eminence Delta pro 8B Midrange drivers, and a 1 inch compression driver on a small 60x40 horn. My desired crossover frequencies are: 400Hz between the lows and mids, and 3KHz between the mids and the highs. The enclosure will be vented, and I will need it to play down to just 70Hz. I realized that I could make the cabinet fairly short and narrow by slot loading the woofers. I would use two slots, one at the top, and the other at the bottom of the cabinet, similar to what Renkus-Heinz did with some of the cabinets in the CT line.

[http://www.renkus-heinz.com/loudspeakers/series/Legacy\\_Loudspeakers/ct\\_install/images/hi\\_res/ct7215\\_photo.jpg](http://www.renkus-heinz.com/loudspeakers/series/Legacy_Loudspeakers/ct_install/images/hi_res/ct7215_photo.jpg)

Does anyone see any possible problems with this arrangement for the woofers that would make it not worth trying?

Thanks,  
Bellini

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