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Subject: Re: Critical 7pi pro cornerhorn dimensions  
Posted by [Wayne Parham](#) on Wed, 15 Nov 2006 18:28:00 GMT  
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documents I've written on crossovers and box alignments and what not. In a nutshell, the seven

The bass bin works best when the alignment is slightly overdamped, which has rolloff that is conjugate of the boost from corner loading, making an overall flat response curve. Not only does the radiation angle result in 9dB DI boost but also prevents early reflections since all sounds emanate from the apex of the corner. This is especially attractive when the MF and HF sections are also designed to have a 90° pattern, matching the room wall angle and reducing reflections in the MF and HF bands.