Posted by Wayne Parham on Mon, 01 Nov 2010 14:35:32 GMT
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Some people have built the towers "sideways" and have liked the results. I would suggest doing that instead of the smaller bookshelf model if they're going to be used as mains and not surrounds, especially if you won't be using subs.

About baffle step compensation, I'd suggest it might be better to incorporate subs than to try and push the mains down deeper. That's one way to deal with reduced bass output and it has the added benefit of helping smooth the modal region too.
Baffle Step

is. It uses a midhorn to control directivity because the pattern without a horn is too wide. A larger midwoofer driver narrows directivity at lower frequency and is a good match for the tweeter horn but the smaller midwoofer needs extra pattern control, so a midhorn is used.

be made that adding a horn doesn't necessitate matching directivity. But to me, that's the main advantage of using the horn in the first place. We're looking for controlled directivity. So if you

design. That's my advice.