
Subject: Crosspost (from diyaudio.com) you may find interesting...

Posted by [Greggo](#) on Sun, 13 Aug 2006 16:59:36 GMT

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Regarding the sub design, have any of you guys looked at these commercial designs and attempted to think through if there is something of merit here or not. The first one is Zu Cable's Definition, which seems to follow the "keep cone resonance above pass band" philosophy for there integrated subwoofer, though the use a small sealed chamber for all 4 of those Eminence drivers...<http://www.6moons.com/audioreviews/zu2/definition.html> The second one that I find even more interesting is the Escalante, which uses compound loading and staggered crossover points, low passing the rear (internal to the cabinet) driver around 80hz and then letting the front driver run well up into the midrange... and claiming that this creates an environment for the front driver to have a controlled resonance of sorts and thus lower distortion and dramatically improve the rise time of the drivers response:http://www.positive-feedback.com/ls...nte_fremont.html normally don't pay much attention to the HiFi press or commercial markets as I am slowly moving towards a mostly DIY system, but these two systems really got my curiosity up and the reviews are both a fun read. So the last one got me thinking, instead of taking on the whole mid dome instead of whizzer engineering for super extended range from the woofer, is it possible to take the framework of Scott's design, and compound load a second B&C 12TBX100 in front of it and run it all the way up to 90hz or even up to 3-600Hz depending on your overall system design goals and the other drivers involved. Thinking about Scotts take on the frequency ranges that constitute hall volume, slam, punch, etc... wouldn't it be nice to have a stereo pair of bass towers that cover it all before handing off to an upper-bass/lower-mid driver in another cabinet that starts the final stage of the journey to a full range system. Of course, that's if there is something to Thierry's patents worth cloning (for our own, non-commercial use of course). Anyways, these two products and their accompanying reviews/descriptions/patents go into territory I have not seen discussed on the various diy forums before, most of the time these things are a big yawn for me and I much prefer the forums, these two struck as worth looking at as closely as possible. Regards, Greg Jensen Asheville, NC