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Subject: Re: Horns, transmission lines and reflex cabinets  
Posted by [Ed Schilling](#) on Sun, 07 Aug 2005 13:21:31 GMT  
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Wayne, You are right. That would be much more useful. And it sure would lay it all out there. Unfortunately for me, that is just an impossible set of things to do. It would require WAY too much time and effort to perform the building and testing, I for one simply don't have the time to do it. And for me it would just be doing all over again the things I spent years doing. I have already formed my OPINIONS based on those very things. The trick is I just didn't do it at one time to make a point or to do an experiment. They were done over a period of many years and I built so many enclosures that formed my opinions that I could not count them all. What started the thread was the simple premise..." Why won't a single driver speaker do metal?" I completely disagree with the premise and my only intention was to simply give one type of design that demonstrates this is simply not so. As I stated before.....In my EXPERIENCE I have not heard a sealed (without a sub) or a TL (without a sub) pull it off. So to a point I agree. But that's only to a point.....I know for a fact that a BLH can do it. The only hard numbers I can offer (at this time) is the testimony from Larry .....If some of you doubt that he or I know what "audible distortion" is or that we don't know what "bass" should sound like (he is a musician, and should "have a clue"), or that 106 dB @ 15 feet is not "loud enough" to qualify as "doing it", well, I can't help it. I am sorry that I can't give a detailed comparison of the designs in question but that was not the original premise anyway. It was the inability of a single driver to play a certain type of music. And that is just wrong.....I linked to the J-Low article because it does have a little bit about what we were going on about. I think in the article Nelson says something to the effect that they built the J-Low because no other enclosure would have the efficiency gains he wanted. And they did in fact build a couple non-BLH boxes. Page 2 of the article says pretty much exactly what I have been saying.....the excursion in the bass severely limited SPL. And so they built a BLH. It is right there and a real example. Anyway.....I never said the other designs don't "sound good" within their limits. But again the only single driver speakers that I have heard that go loud enough (for me at least) have all been BLHs. That's my story and I'm sticking with it! I won't present any more "examples".....I think the Pass article says enough about it. If that does not help the prospective "single driver builder" then I'm sorry....it's all I got! This has been a rather nice discussion.....and it ain't a rule we agree on everything! Edl might add....a person could make the numbers go any way they want by simply building a non-optimum enclosure. In order for the results to be accurate the 3 examples would have to all be the optimum enclosure and the drivers would have to be the same size and since the parameters for the optimum driver for each design are so wildly different a fellow could get any result he wanted. And besides all that, I thought Mr Klipsch settled the efficiency of a horn vs. everything else 50 years ago!