Subject: Re: design plan for a tractrix horn using various drivers
Posted by Wayne Parham on Thu, 20 Mar 2003 09:30:06 GMT
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There are a lot of different ways to use these. The direction I'm going is to use a straight-walled conical horn with approximately 90x40 wall angle. The throat entrance is square and the side walls expand from that. This makes a horn that is fairly simple to build and has a pattern than matches my tweeters.A phase plug would extend the upper response limits but I only need output to 2kHz. It is fine for the path length differences to start rolling off output above that because the cone starts entering breakup around that point anyway. What I'm finding is response to 1kHz is pretty easy but it's harder to hit 2kHz, especially with larger drivers. But I don't need output much above 1kHz anyway, just enough to sum with the tweeter as it comes online.