Subject: Can somebody please tell me if this Tractrix design is correct
Posted by Adrian Mack on Thu, 27 Mar 2003 22:37:51 GMT
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Hey everyone. I've decided to use the Eminence Delta 10 for my midrange horns, covering 200Hz-1.6KHz. I have been modelling it in Hornresp, and come up with what I think are some pretty good results. Here is the graph:It stays within +/-2db along the curve to about 200Hz. The horn itself has a cutoff of 164.03Hz, it performs crap at this freq according to the graph, but thats OK, as I only want it from 200Hz to 1.6KHz :) Here are the parameters I entered in the program:As I have never built a horn before, and this is my first time using Hornresp, can anyone please tell me if any of the numbers I have entered are just outragously stupid or impractical :) I have heard that Tractrix horns should not be used to its cutoff frequency... do you think, from the info above, that this one will be fine from 200Hz? What should the acoustical and electrical impedance look like? Here are the ones I have for this design:Can anyone see any problems with these?Ok... providing all the design work is correct, how do I go about building it! EG: Mouth angles, etc. Some links would be nice, or just plain info if you are willing to spend the time telling me :)Here is the schematic plans if it helps any:Thanks for any help !!! I hope the message is not to long or confusing :D Most of it is just pictures anyway!Adrian