Subject: Re: Set your goals, model a design and build it
Posted by Wayne Parham on Thu, 06 Nov 2003 13:17:21 GMT
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You can make a simple conical horn having each side at the angle desired. Start with the throat area needed for the compression ratio desired and end where the area is large enough to support the lowest frequency passed.

Hornresp models do a great job of predicting performance, but understand it calculates pistonic behavior only. Your driver will have output over and above the point where mass rolloff causes the pistonic output to droop. It's almost like you have a horn with the diaphragm as one sound source, and the you have sections of the vibrating plane as other sound sources. These secondary vibrations will generate significant output, which is shown on the measured frequency response graph.